AdipoGen™

Connecting Immunology to Metabolism™

GENERAL CATALOG

- CANCER
- IMMUNOLOGY
- INFLAMMATION
- METABOLISM
- STEM CELL RESEARCH
- ELISA KITS
- NEW SMALL MOLECULES
- RARE NATURAL PRODUCTS

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AdipoGen™

Connecting Immunology to Metabolism™

Adipogen International, Inc. consists of three companies, Adipogen, Inc. (South Korea), Adipogen SA (Switzerland) and Adipogen Corporation (San Diego, USA). The Corporate headquarters is in San Diego, USA and the Operational headquarters is in Liestal, Switzerland. A motivated team of highly-skilled individuals develops and manufactures new products for the Life Science Research Market in the areas of cancer, immunology, inflammation, metabolic syndrome (diabetes, obesity), stem cells and neurodegeneration. A major focus is on innovative and advanced ELISA Kits. In addition to the antibody and protein facilities, AdipoGen owns chemical laboratories, enabling the company to develop new and innovative small molecules.

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ELISA Kits

- Reproducible results with low inter- and intra-assay variation
- High sensitivity
- Broad range of sample types (e.g serum, plasma, cell culture supernatant, urine)
- Unique intracellular detection systems
- Many product specific literature references
- “Tools available for preclinical and clinical research”

Contents ELISA Kits

Metabolism / Diabetes / Obesity

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Metabolism / Diabetes / Obesity

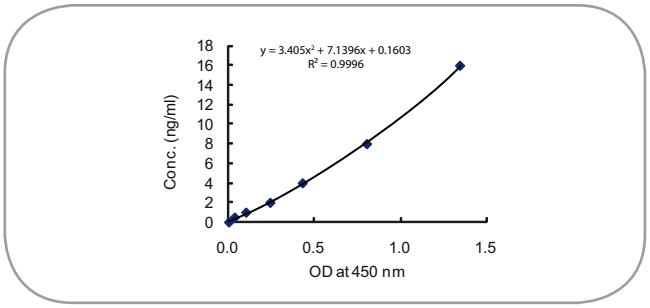
ADIPONECTIN – Promising Biomarker of Metabolic Syndrome

Adiponectin [ACRP30; AdipoQ] is a promising biomarker of insulin resistance and type 2 diabetes mellitus (T2DM) but also as a potential target for management of the metabolic syndrome. It is a very robust marker that is not prone to degradation or acute inflammatory challenges, is present in relatively high concentrations in the peripheral circulation, and can be collected by a variety of methods. The benefits of using adiponectin assays in clinical settings include, (a) prediction of risk of diabetes and metabolic status and (b) providing a tool to monitor metabolic improvements. Adiponectin exerts anti-atherogenic and anti-inflammatory properties and may be important as a biomarker for obesity-related cardiovascular disease (CVD). New findings showed urinary adiponectin excretion as an independent new biomarker of microvascular and macrovascular damage in T2DM and suggested it as a very promising tool for early cardiovascular disease risk assessment. Adiponectin serum level was also described as a good biomarker of colorectal adenoma, this being related to the positive correlation between obesity and increased risk of cancer at various sites (colorectal, breast, prostate and endometrium).

Adiponectin (human) ELISA Kit — The Standard!

AG-45A-0001EK-KI01		96 wells
AG-45A-0001TP-KI01	Twin Plex	2 x 96 wells
AG-45A-0001PP-KI01	Penta Plex	5 x 96 wells

Species reactivity:	Human
Sensitivity:	100 pg/ml
Range:	0.5 to 32 ng/ml
Detection type:	Colorimetric
Assay type:	Sandwich
Sample type:	Serum, Plasma, Urine, Cell Culture Supernatant



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- MicroRNA Expression in Human Omental and Subcutaneous Adipose Tissue: N. Klöting, et al.; PLoS One **4,** e4699 (2009)
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- Combined effects of body mass index and cardio/respiratory fitness on serum vaspin concentrations in Korean young men: J.K. Chou, et al.; Eur. J. Appl. Physiol. **108,** 347 (2010)
- Adiponectin, Resistin and Leptin Response to Dietary Intervention in Diabetic Nephropathy: L. Kozłowska, et al.; J. Ren. Nutr. **20,** 255 (2010)
- Possible involvement and the mechanisms of excess trans-fatty acid consumption in severe NAFLD in mice: N. Obara, et al.; J. Hepatol. **53,** 326 (2010)

Visit our website for a comprehensive bibliography.

Adiponectin (human) Competitive ELISA Kit

AG-45A-0002EK-KI01		96 wells
AG-45A-0002TP-KI01	Twin Plex	2 x 96 wells
AG-45A-0002PP-KI01	Penta Plex	5 x 96 wells

Species reactivity:	Human
Sensitivity:	1 ng/ml
Range:	0.001 to 1 µg/ml
Detection type:	Colorimetric
Assay type:	Competitive
Sample type:	Serum, Plasma, Cell Culture Supernatant

PRODUCT SPECIFIC LITERATURE REFERENCE

- Tumor necrosis factor-related apoptosis-inducing ligand promotes migration of human bone marrow multipotent stromal cells: P. Secchiero, et al.; Stem Cells **26,** 2955 (2008)

Adiponectin (mouse) ELISA Kit

AG-45A-0004EK-KI01		96 wells
AG-45A-0004TP-KI01	Twin Plex	2 x 96 wells
AG-45A-0004PP-KI01	Penta Plex	5 x 96 wells

Species reactivity:	Mouse
Sensitivity:	50 pg/ml
Range:	0.125 to 8 ng/ml
Detection type:	Colorimetric
Assay type:	Sandwich
Sample type:	Serum, Plasma, Cell Culture Supernatant

PRODUCT SPECIFIC LITERATURE REFERENCES

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Adiponectin (rat) ELISA Kit

AG-45A-0005EK-KI01		96 wells
AG-45A-0005TP-KI01	Twin Plex	2 x 96 wells
AG-45A-0005PP-KI01	Penta Plex	5 x 96 wells

Species reactivity:	Rat
Sensitivity:	50 pg/ml
Range:	0.375 to 24 ng/ml
Detection type:	Colorimetric
Assay type:	Sandwich
Sample type:	Serum, Plasma, Cell Culture Supernatant

PRODUCT SPECIFIC LITERATURE REFERENCES

- A new organotypic culture of adipose tissue fragments maintains viable mature adipocytes for a long term, together with development of immature adipocytes and mesenchymal stem cell-like cells: E. Sonoda, et al.; Endocrinology **149,** 4794 (2008)
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- Effects of aerobic exercise training on visceral fat and serum adiponectin concentration in ovariectomized rats: A. Damirchi, et al.; Climacteric **13,** 171 (2010)
- Antioxidant and Hepatoprotective Effects of Silibinin in a Rat Model of Nonalcoholic Steatohepatitis: Y. Haddad, et al.; Evid. Based Compl. Alternat. Med. **2011,** Article ID 647903 (2011)

Adiponectin (rhesus monkey, macaque) Competitive ELISA Kit

AG-45A-0003EK-KI01	96 wells

Species reactivity:	Monkey
Sensitivity:	1 ng/ml
Range:	0.001 to 1 µg/ml
Detection type:	Colorimetric
Assay type:	Competitive
Sample type:	Serum, Plasma, Cell Culture Supernatant

ANGPTL3/ANGPTL6 – Potential Biomarkers for Metabolic Diseases

Seven proteins containing an N-terminal coiled-coil domain and a C-terminal fibrinogen-like domain, both characteristics of angiopoietins, have been identified and therefore designated angiopoietin-like proteins 1-7 (ANGPTL 1-7). ANGPTL3 and ANGPTL6 (Angiopoietin-related growth factor; AGF), among others, function to regulate angiogenesis. ANGPTL3 is a secreted protein that regulates triglyceride (TG) metabolism in part by inhibiting lipoprotein lipase (LPL). It has been shown to regulate fat, lipid or glucose metabolic homeostasis. ANGPTL3 supports the activity of hematopoietic stem cells in the bone marrow niche. The serum levels of ANGPTL6 are significantly increased in obese humans, patients with type 2 diabetes mellitus (T2DM), and in metabolic syndrome. Therefore, ANGPTL6 may be a novel biomarker for metabolic diseases and may provide a novel therapeutic approach to counteract obesity, T2DM and insulin resistance.

LIT: Serum levels of angiopoietin-related growth factor are increased in metabolic syndrome: J. Namkung, et al.; Metabolism, **60,** 564 (2011)

ANGPTL3 (human) ELISA Kit

AG-45A-0014EK-KI01		96 wells
AG-45A-0014TP-KI01	Twin Plex	2 x 96 wells
AG-45A-0014PP-KI01	Penta Plex	5 x 96 wells

Species reactivity:	Human
Sensitivity:	150 pg/ml
Range:	0.156 to 10 ng/ml
Detection type:	Colorimetric
Assay type:	Sandwich
Sample type:	Serum, Plasma, Cell Culture Supernatant

ANGPTL3 (mouse/rat) Dual ELISA Kit

AG-45A-0015EK-KI01		96 wells
AG-45A-0015TP-KI01	Twin Plex	2 x 96 wells
AG-45A-0015PP-KI01	Penta Plex	5 x 96 wells

Species reactivity:	Mouse / Rat
Sensitivity:	15 pg/ml
Range:	0.016 to 1 ng/ml
Detection type:	Colorimetric
Assay type:	Sandwich
Sample type:	Serum, Plasma, Cell Culture Supernatant

ANGPTL6 (human) ELISA Kit

AG-45A-0016EK-KI01		96 wells
AG-45A-0016TP-KI01	Twin Plex	2 x 96 wells
AG-45A-0016PP-KI01	Penta Plex	5 x 96 wells

Species reactivity:	Human
Sensitivity:	1.2 ng/ml
Range:	1.56 to 100 ng/ml
Detection type:	Colorimetric
Assay type:	Sandwich
Sample type:	Serum, Plasma, Cell Culture Supernatant

PRODUCT SPECIFIC LITERATURE REFERENCES

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- Serum levels of angiopoietin-related growth factor in diabetes mellitus and chronic hemodialysis: T. Ebert, et al.; Metabolism **58,** 547 (2009)
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CTRP3 – Hepatic Glucose Output Regulator

Both CTRPs and adiponectin are part of the expanding C1q/TNF superfamily of proteins. Most CTRPs are expressed by adipose tissue and circulate in plasma. CTRP3 (C1q/THF-related protein 3; C1QTNF3) belongs to a highly conserved family of adiponectin paralogs. Circulating levels of CTRP3 are inversely correlated with leptin levels; CTRP3 increases with fasting. CTRP3 is linked to hepatic glucose metabolism and is considered as a novel adipokine.

CTRP3 (human) Competitive ELISA Kit

AG-45A-0042EK-KI01		96 wells
AG-45A-0042TP-KI01	Twin Plex	2 x 96 wells
AG-45A-0042PP-KI01	Penta Plex	5 x 96 wells

Species reactivity:	Human
Sensitivity:	1 ng/ml
Range:	0.001 to 1 µg/ml
Detection type:	Colorimetric
Assay type:	Competitive
Sample type:	Serum, Plasma, Cell Culture Supernatant

CTRP5 – Putative Biomarker of Glucose and Lipid Metabolism

Both CTRPs and adiponectin are part of the expanding C1q/TNF superfamily of proteins. Most CTRPs are expressed by adipose tissue and circulate in plasma. CTRP5 (C1qTNF-related protein 5; C1QTNF5) belongs to a highly conserved family of adiponectin paralogs. CTRP5 mediates activation of AMP-activated protein kinase (AMPK) in muscle and liver cells, thereby regulating glucose and lipid metabolism. Serum levels of CTRP5 are significantly higher in obese/diabetic animal models compared to normal controls. Furthermore, CTRP5 may be a putative biomarker for mitochondrial dysfunction.

CTRP5 (human) Competitive ELISA Kit

AG-45A-0031EK-KI01		96 wells
AG-45A-0031TP-KI01	Twin Plex	2 x 96 wells
AG-45A-0031PP-KI01	Penta Plex	5 x 96 wells

Species reactivity:	Human
Sensitivity:	1 ng/ml
Range:	0.001 to 5 µg/ml
Detection type:	Colorimetric
Assay type:	Competitive
Sample type:	Serum, Plasma, Cell Culture Supernatant

FTO – Contributing to Common Forms of Obesity

FTO (Fat mass-and obesity-associated gene) was discovered as a responsible gene causing the mouse 'fused toes' mutation. Studies using wildtype mice indicated that Fto mRNA is most abundant in the brain, particularly in hypothalamic nuclei governing energy balance and that Fto mRNA levels in the arcuate nucleus are regulated by feeding and fasting. An association between FTO genotype and type 2 diabetes has been confirmed.The presence of the FTO rs9939609 A-allele was found to be positively correlated with other symptoms of the metabolic syndrome, including higher fasting insulin, glucose, triglycerides and lower HDL-cholesterol.

FTO (human) (IntraCellular) ELISA Kit

AG-45A-0025EK-KI01		96 wells
AG-45A-0025TP-KI01	Twin Plex	2 x 96 wells

Species reactivity:	Human
Sensitivity:	50 pg/ml
Range:	0.156 to 10 ng/ml
Detection type:	Colorimetric
Assay type:	Sandwich
Sample type:	Cell Lysate

FTO (mouse) (IntraCellular) ELISA Kit

AG-45A-00285EK-KI01		96 wells
AG-45A-0028TP-KI01	Twin Plex	2 x 96 wells

Species reactivity:	Mouse
Sensitivity:	20 pg/ml
Range:	0.156 to 10 ng/ml
Detection type:	Colorimetric
Assay type:	Sandwich
Sample type:	Cell Lysate

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NAMPT [VISFATIN/PBEF] – Linking NAD Biology, Metabolism and Cancer

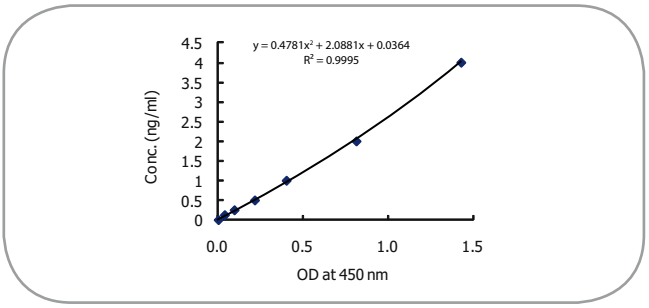
Nicotinamide phosphoribosyltransferase (Nampt; pre-B-cell colony-enhancing factor; PBEF; Visfatin) is an 52kDA adipokine secreted by adipose tissue and involved in the biosynthesis of nicotinamide adenine dinucleotide (NAD^+). Two forms of Nampt exist, an intracellular form (iNampt) and an extracellular form (eNampt). While the function of iNampt as an essential and rate-limiting NAD^+ biosynthetic enzyme is well established, the physiological role of eNampt is still a matter of debate. It has been shown that Nampt expression is increased in different diseases, like diabetes, obesity, fetal growth retardation, sepsis, inflammatory bowel disease, Crohn's disease and rheumatoid arthritis. Furthermore, Nampt might be a marker of pre-eclampsia and of endothelial health.

Nampt (Visfatin/PBEF) (human) ELISA Kit

The Standard!

AG-45A-0006EK-KI01		96 wells
AG-45A-0006TP-KI01	Twin Plex	2 x 96 wells
AG-45A-0006PP-KI01	Penta Plex	5 x 96 wells

Species reactivity:	Human
Sensitivity:	30 pg/ml
Range:	0.125 to 8 ng/ml
Detection type:	Colorimetric
Assay type:	Sandwich
Sample type:	Serum



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- Longitudinal changes in pancreatic and adipocyte hormones following Roux-en-Y gastric bypass surgery: M. M. Swarbrick, et al.; Diabetologia **51,** 1901 (2008)
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- Ethnic-specific Correlations of Visfatin With Circulating Markers of Endothelial Inflammation and Function: M. Reimann, et al.; Obesity **17,** 2210 (2009)
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- Visfatin in gestational diabetes: serum level and mRNA expression in fat and placental tissue: B. Telejko, et al.; Diabetes Res. Clin. Pract. **84,** 68 (2009)
- Plasma visfatin concentrations after a lifestyle intervention were directly associated with inflammatory markers: S. Bo, et al.; Nutr. Metab. Cardiovasc. Dis. **19,** 423 (2009)
- Release of 12 Adipokines by Adipose Tissue, Nonfat Cells, and Fat Cells From Obese Women: J. N. Fain, et al.; Obesity (Silver Spring) **18,** 890 (2009)
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- Active visfatin is elevated in serum of maintenance haemodialysis patients and correlates inversely with circulating HDL cholesterol: K. D. Nusken, et al.; Nephrol. Dial. Transplant. **24,** 2832 (2009)
- Alteration of adipokines during peripheral blood stem cell mobilization induced by granulocyte colony-stimulating factor: Y. Tanaka, et al.; J. Clin. Apheresis **24,** 205 (2009)
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- Visfatin is a positive regulator of MCP-1 in human adipocytes in vitro and in mice in vivo: G. Sommer, et al.; Obesity **18,** 1486 (2010)
- A 12-week regimen of caloric restriction improves levels of adipokines and pro-inflammatory cytokines in Korean women with BMIs greater than 23 kg/m2: I.S. Lee, et al.; Inflamm. Res. **59,** 399 (2010)
- Nicotinamide phosphoribosyltransferase (NAMPT/PBEF/visfatin) is constitutively released from human hepatocytes: A. Garten, et al.; BBRC **391,** 376 (2010)
- The relationship between visfatin and metabolic syndrome in postmenopausal women: J.H. Kim, et al.; Maturitas **67,** 67 (2010)
- Transcriptome analysis of monocyte-HIV interactions: R. Van den Bergh, et al.; Retrovirology **7,** 53 (2010)
- Adipokines and cardiometabolic function: How are they interlinked?: A.E. Schutte, et al.; Regul. Pept. **164,** 133 (2010)
- A 12-week regimen of caloric restriction improves levels of adipokines and pro-inflammatory cytokines in Korean women with BMIs greater than 23 kg/m2: I.S. Lee, et al.; Inflamm. Res. **59,** 399 (2010)
- Splanchnic concentrations and postprandial release of visceral adipokines: R. Wiest, et al.; Metabolism **59,** 664 (2010)
- Serum visfatin is associated with type 2 diabetes mellitus independent of insulin resistance and obesity: A. Esteghamati, et al.; Diabetes Res. Clin. Pract. **91,** 154 (2011)
- Serum visfatin and vaspin levels in prepubertal children: effect of obesity and weight loss after behavior modifications on their secretion and relationship with glucose metabolism: G.A. Martos-Moreno, et al.; Int. J. Obes. (Lond) **(Epub ahead of print)** (2011)
- Admission Visfatin Levels Predict Pancreatic and Peripancreatic Necrosis in Acute Pancreatitis and Correlate With Clinical Severity: A. Schäffler, et al.; Am. J. Gastroenterol. **106,** 957 (2011)
- Circulating Nampt and RBP4 levels in patients with carotid stenosis undergoing carotid endarterectomy (CEA): G. Aust, et al.; Clin. Chim. Acta. **412,** 1195 (2011)

Nampt (Visfatin/PBEF) (human) (IntraCellular) ELISA Kit

AG-45A-0008EK-KI01		96 wells
AG-45A-0008TP-KI01	Twin Plex	2 x 96 wells

Species reactivity:	Human
Sensitivity:	30 pg/ml
Range:	0.063 to 16 ng/ml
Detection type:	Colorimetric
Assay type:	Sandwich
Sample type:	Cell Lysate

PRODUCT SPECIFIC LITERATURE REFERENCES

- Nicotinamide phosphoribosyltransferase (NAMPT/PBEF/visfatin) is constitutively released from human hepatocytes: A. Garten, et al.; BBRC **391,** 376 (2010)
- Leucocytes are a major source of circulating nicotinamide phosphoribosyltransferase (NAMPT)/pre-B cell colony (PBEF)/visfatin linking obesity and inflammation in humans: D. Friebe, et al.; Diabetologia **54,** 1200 (2011)

Nampt (Visfatin/PBEF) (mouse/rat) Dual ELISA Kit

AG-45A-0007EK-KI01		96 wells
AG-45A-0007TP-KI01	Twin Plex	2 x 96 wells
AG-45A-0007PP-KI01	Penta Plex	5 x 96 wells

Species reactivity:	Mouse / Rat
Sensitivity:	50 pg/ml
Range:	0.5 to 32 ng/ml
Detection type:	Colorimetric
Assay type:	Sandwich
Sample type:	Serum

Nampt (Visfatin/PBEF) (mouse/rat) (IntraCellular) Dual ELISA Kit

AG-45A-0009EK-KI01		96 wells
AG-45A-0009TP-KI01	Twin Plex	2 x 96 wells

Species reactivity:	Mouse / Rat
Sensitivity:	50 pg/ml
Range:	0.5 to 32 ng/ml
Detection type:	Colorimetric
Assay type:	Sandwich
Sample type:	Cell Lysate

NQO1 – Associated to Metabolic Complications

NQO1 (NAD(P)H:quinone oxidoreductase 1; NAD(P)H dehydrogenase (quinone) 1; DT-diaphorase; Quinone reductase 1; QR1) is a cytosolic antioxidant flavoprotein that catalyzes the reduction of highly reactive quinone metabolites and their derivatives by using NAD(P)H as an electron donor. Thus NQO1 acts as a detoxyfying enzyme and is involved in the body's protection against oxidative stress. NQO1 acts as a protein chaperone, one of its targets being p53. In humans NQO1 is expressed at high levels in adipocytes and its expression levels are positively correlated with adiposity, glucose tolerance and makers of liver dysfunction. Altered expression of NQO1 is associated with Alzheimer's disease. NQO1 is abnormally elevated in many types of solid tumors and may represent a useful biomarker of pancreatic cancer.

NQO1 (human) (IntraCellular) ELISA Kit

AG-45A-0036EK-KI01		96 wells
AG-45A-0036TP-KI01	Twin Plex	2 x 96 wells

Species reactivity:	Human
Sensitivity:	100 pg/ml
Range:	0.313 to 20 ng/ml
Detection type:	Colorimetric
Assay type:	Sandwich
Sample type:	Cell Lysate

RBP4 – Valuable Marker for Insulin Resistance

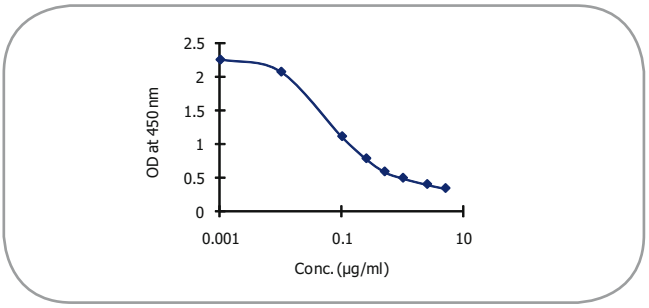
Retinol binding protein 4 (RBP4; RBP) is a 21kDa secreted protein, a member of the lipocalin family and is known as the primary transporter of retinol (vitamin A) to tissues. A recent report revealed RBP4 as an adipokine linking glucose transporter 4 (GLUT4) suppression in adipose tissue to insulin. Elevated human and mouse serum RBP4 levels are associated with insulin resistance and its severity, obesity and certain components of metabolic syndrome. Furthermore, human serum RBP4 levels are closely related to renal function and recent studies have shown an association between serum RBP4 levels and urinary albumin excretion. The urinary RBP4 concentration may be a valuable marker for both, insulin resistance and microalbuminuria in insulin-resistant subjects.

RBP4 (human) Competitive ELISA Kit

The Standard !

AG-45A-0010EK-KI01		96 wells
AG-45A-0010TP-KI01	Twin Plex	2 x 96 wells
AG-45A-0010PP-KI01	Penta Plex	5 x 96 wells

Species reactivity:	Human
Sensitivity:	1 ng/ml
Range:	0.001 to 5 µg/ml
Detection type:	Colorimetric
Assay type:	Competitive
Sample type:	Serum, Plasma, Urine, Cell Culture Supernatant



PRODUCT SPECIFIC LITERATURE REFERENCES

- Retinol-binding protein 4 in human obesity: J. Janke, et al.; Diabetes **55,** 2805 (2006)
- Plasma retinol-binding protein-4 concentrations are elevated in human subjects with impaired glucose tolerance and type 2 diabetes: Y.M. Cho, et al.; Diabetes Care **29,** 2457 (2006)
- Association of serum retinol binding protein 4 and insulin resistance in apparently healthy adolescents: D.C. Lee et al.; Metab. Clin. Exp. **56,** 327 (2007)
- High circulating retinol-binding protein 4 is associated with elevated liver fat, but not with total-, subcutaneous-, visceral-, or intramyocellular fat in humans: N. Stefan et al.; Diabetes Care **30,** 1173 (2007)
- Retinol-binding protein 4 as a plasma biomarker of renal dysfunction and cardiovascular disease in type 2 diabetes: A. Cabre, et al.; J. Intern. Med. **262,** 496 (2007)
- Visceral adiposity is associated with serum retinol binding protein-4 levels in healthy women: J.W. Lee, et al.; Obesity (Silver Spring) **15,** 2225 (2007)
- Circulating retinol-binding protein-4, insulin sensitivity, insulin secretion, and insulin disposition index in obese and nonobese subjects: response to Broch et al: N. Stefan, et al.; Diabetes Care **30,** e91 (2007)
- Insulin resistance is unrelated to circulating retinol binding protein and protein C inhibitor: M. Promintzer, et al.; J. Clin. Endocrinol. Metab. **92,** 4306 (2007)
- Serum levels of adipokine retinol-binding protein-4 in relation to renal function: M. Ziegelmeier, et al.; Diabetes Care **30,** 2588 (2007)
- Serum retinol-binding protein 4 levels are elevated in non-alcoholic fatty liver disease: J.A. Seo, et al.; Clin. Endocrinol. (Oxf) **68,** 555 (2008)
- Retinol binding protein-4 elevation is associated with serum thyroid-stimulating hormone level independently of obesity in elderly subjects with normal glucose tolerance: S. H. Choi, et al.; J. Clin. Endocrinol. Metab. **93,** 2313 (2008)
- Retinol binding protein 4 concentrations are influenced by renal function in patients with type 2 diabetes mellitus: T. Masaki, et al.; Metabolism **57,** 1340 (2008)
- High plasma retinol binding protein-4 and low plasma adiponectin concentrations are associated with severity of glucose intolerance in women with previous gestational diabetes mellitus: S.H. Choi, et al.; J. Clin. Endocrinol. Metab. **93,** 3142 (2008)
- Decreased clearance of serum retinol-binding protein and elevated levels of transthyretin in insulin-resistant ob/ob mice: N. Mody, et al.; Am. J. Physiol. Endocrinol. Metab. **294,** E785 (2008)
- Identification of serum biomarkers in brain-injured adults- potential for predicting elevated intracranial pressure: G. Hergenroeder, et al.; J. Neurotrauma **25,** 79 (2008)
- Retinol binding protein 4: a new marker of virus-induced steatosis in patients infected with Hepatitis C virus genotype 1: S. Petta, et al.; Hepatology **48,** 28 (2008)
- Insulin-Sensitizing Effects of Exercise on Adiponectin and Retinol-Binding Protein-4 Concentrations in Young and Middle-Aged Women: S. Lim, et al.; J. Clin. Endocrinol. Metab. **93,** 2263 (2008)
- Circulating retinol-binding protein-4 concentration might reflect insulin resistance-associated iron overload: J.M. Fernández-Real, et al.; Diabetes **57,** 1918 (2008)
- Association between serum retinol-binding protein 4 and small dense low-density lipoprotein cholesterol levels in young adult women: S. Usui, et al.; Clin. Chim. Acta **399,** 45 (2009)
- Serum Adipocyte Fatty Acid–Binding Protein Levels Are Associated With Nonalcoholic Fatty Liver Disease in Type 2 Diabetic Patients: J.H. Koh, et al.; Diabetes Care **32,** 147 (2009)
- Elevated serum g-glutamyltransferase levels are independently associated with insulin resistance in non-diabetic subjects: J.Y. Shin, et al.; Diabetes Res. Clin. Pract. **84,** 152 (2009)
- Clinical Implications of Serum Retinol-Binding Protein 4 in Asthmatic Children: Y.H. Park, et al.; J. Korean Med. Sci. **24,** 1010 (2009)
- Effect of exercise training on A-FABP, lipocalin-2 and RBP4 levels in obese women: K.M. Choi, et al.; Clin. Endocrinol. **70,** 569 (2009)
- Circuit resistance exercise improves glycemic control and adipokines in females with type 2 diabetes mellitus: S. Kang, et al.; JSSM **8,** 682 (2009)
- Visceral Obesity is Associated with the Metabolic Syndrome and Elevated Plasma Retinol Binding Protein-4 Level in Obstructive Sleep Apnea Syndrome: S. Makino, et al.; Horm. Metab. Res. **41,** 221 (2009)
- Patients achieving clearance of HCV with interferon therapy recover from decreased retinol-binding protein 4 levels: M. Iwasa, et al.; J. Viral Hepat. **16,** 716 (2009)
- Macrophages are novel sites of expression and regulation of retinol binding protein-4 (RBP4): M. Broch, et al.; Physiol. Res. **59,** 299 (2010)
- Combined Impact of Adiponectin and Retinol-binding Protein 4 on Metabolic Syndrome in Elderly People: The Korean Longitudinal Study on Health and Aging: S. Lim, et al.; Obesity **18,** 826 (2010)
- Elevated serum retinol-binding protein 4 is associated with insulin resistance in older women: J.B. Suh, et al.; Metabolism **59,** 118 (2010)
- The APOA5–1131 T > C variant enhances the association between RBP4 and hypertriglyceridemia in diabetes: A. Cabré, et al.; Nutr. Metab. Cardiovasc. Dis. **20,** 243 (2010)
- APOH is increased in the plasma and liver of type 2 diabetic patients with metabolic syndrome: A. Castro, et al.; Atherosclerosis **209,** 201 (2010)
- Elevation of plasma retinol-binding protein 4 and reduction of plasma adiponectin in subjects with cerebral infarction: M. Sasaki, et al.; Metabolism **59,** 527 (2010)

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RBP4 (human) ELISA Kit (Quantitative)

AG-45A-0035EK-KI01		96 wells
AG-45A-0035TP-KI01	Twin Plex	2 x 96 wells
AG-45A-0035PP-KI01	Penta Plex	5 x 96 wells

Species reactivity:	Human
Sensitivity:	380pg/ml
Range:	0.39 to 25ng/ml
Detection type:	Colorimetric
Assay type:	Sandwich
Sample type:	Serum, Urine, Plasma, Cell Culture Supernatant

RBP4 (mouse/rat) Dual ELISA Kit

AG-45A-0012EK-KI01		96 wells
AG-45A-0012TP-KI01	Twin Plex	2 x 96 wells
AG-45A-0012PP-KI01	Penta Plex	5 x 96 wells

Species reactivity:	Mouse, Rat
Sensitivity:	60 pg/ml
Range:	0.188 to 12 ng/ml
Detection type:	Colorimetric
Assay type:	Sandwich
Sample type:	Serum, Urine, Cell Culture Supernatant

PRODUCT SPECIFIC LITERATURE REFERENCES

- Plasma retinol-binding protein-4 concentrations are elevated in human subjects with impaired glucose tolerance and type 2 diabetes: Y.M. Cho, et al.; Diabetes Care **29,** 2457 (2006)
- High circulating retinol-binding protein 4 is associated with elevated liver fat but not with total, subcutaneous, visceral, or intramyocellular fat in humans: N. Stefan, et al.; Diabetes Care **30,** 1173 (2007)
- Cyanidin 3-glucoside ameliorates hyperglycemia and insulin sensitivity due to downregulation of retinol binding protein 4 expression in diabetic mice: R. Sasaki, et al.; Biochem. Pharmacol. **74,** 1619 (2007)
- Decreased clearance of serum retinol-binding protein and elevated levels of transthyretin in insulin-resistant ob/ob mice: N. Mody, et al.; Am. J. Physiol. Endocrinol. Metab. **294,** E785 (2008)
- Identification and characterization of a non-retinoid ligand for retinol-binding protein 4 which lowers serum retinol-binding protein 4 levels in vivo: A. Motani, et al.; J. Biol. Chem. **284,** 7673 (2009)
- Effect of dietary monosodium glutamate on trans fat-induced nonalcoholic fatty liver disease: K.S. Collison, et al.; J. Lipid Res. **50,** 1521 (2009)
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- Early postnatal oestradiol exposure causes insulin resistance and signs of inflammation in circulation and skeletal muscle: C. Alexanderson, et al.; J. Endocrinol. **201,** 49 (2009)
- Dietary trans-fat combined with monosodium glutamate induces dyslipidemia and impairs spatial memory: K.S. Collison, et al.; Physiol. Behav. **99,** 334 (2010)
- Effect of dietary monosodium glutamate on HFCS-induced hepatic steatosis: expression profiles in the liver and visceral fat: K.S. Collison, et al.; Obesity (Silver Spring) **18,** 1122 (2010)
- Dietary anthocyanin-rich bilberry extract ameliorates hyperglycemia and insulin sensitivity via activation of AMP-activated protein kinase in diabetic mice: M. Takikawa, et al.; J. Nutr. **140,** 527 (2010)

RESISTIN – An Inflammatory Adipocytokine

Resistin (FIZZ3; ADSF; Adipose tissue-specific secretory factor) is a 12.5kDa cysteine-rich adipocytokine. In rodents, increased resistin-levels impair insulin action, while genetic ablation or down-regulation of the resistin gene improves insulin sensitivity. In humans most reports identified inflammatory cells and bone marrow-derived cells as the main source of resistin, indicating a role in inflammatory responses. Plasma resistin levels were shown to be associated with C-reactive protein (CRP), inflammatory bowel disease, Crohn's disease, atherosclerosis and acute pancreatitis. Atherosclerosis and obesity are increasingly viewed as chronic inflammatory conditions. Circulating resistin levels were reported to be increased in obesity and diabetes.

Resistin (human) ELISA Kit

AG-45A-0023EK-KI01		96 wells
AG-45A-0023TP-KI01	Twin Plex	2 x 96 wells
AG-45A-0023PP-KI01	Penta Plex	5 x 96 wells

Species reactivity:	Human
Sensitivity:	100 pg/ml
Range:	0.125 to 8 ng/ml
Detection type:	Colorimetric
Assay type:	Sandwich
Sample type:	Serum, Plasma, Cell Culture Supernatant

PRODUCT SPECIFIC LITERATURE REFERENCES

- Plasma resistin concentrations measured by enzyme-linked immunosorbent assay using a newly developed monoclonal antibody are elevated in individuals with type 2 diabetes mellitus: B.S. Youn, et al.; J. Clin. Endocrinol. Metab. **89,** 150 (2004)
- Common genetic polymorphisms in the promoter of resistin gene are major determinants of plasma resistin concentrations in humans: Y.M. Cho, et al.; Diabetologia **47,** 559 (2004)
- Association of adiponectin and resistin with cardiovascular events in Korean patients with type 2 diabetes: The Korean atherosclerosis study (KAS): A 42-month prospective study: S. Lim, et al.; Atherosclerosis **196,** 398 (2008)
- Adipokines and Systemic Lupus Erythematosus: Relationship with Metabolic Syndrome and Cardiovascular Disease Risk Factors: M. Vadacca, et al.; J. Rheumatol. **36,** 295 (2009)
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Resistin (mouse) ELISA Kit

AG-45A-0024EK-KI01	96 wells

Species reactivity:	Mouse
Sensitivity:	100 pg/ml
Range:	0.47 to 30 ng/ml
Detection type:	Colorimetric
Assay type:	Sandwich
Sample type:	Serum, Plasma, Cell Culture Supernatant

PRODUCT SPECIFIC LITERATURE REFERENCES

- Sp1 mediates repression of the resistin gene by PPARgamma agonists in 3T3-L1 adipocytes: SS. Chung, et al.; BBRC **348,** 253 (2006)
- Reconsideration of Insulin Signals Induced by Improved Laboratory Animal Diets, Japanese and American Diets, in IRS-2 Defi cient Mice: H. Hashimoto, et al.; Exp. Clin. Endocrinol. Diabetes **117,** 577 (2009)

Matched Pair Detection Set

RELM-β – Regulator of Insulin Sensitivity

RELM-β (human) Matched Pair Detection Set

AG-46A-0001EK-KI01 — 1 Set

SPECIES REACTIVITY:	Human
SENSITIVITY:	10 pg/ml
RANGE:	0.016 to 1 ng/ml

Contains sufficient materials to run ELISAs on 5 x 96-well plates.

SIRTUIN 1 & 2 – Key Therapeutic Research Tools

Sirtuins (Silent information regulators; SIRTs) deacetylate and/or ADP-ribosylate lysine residues of target proteins in an NAD^+-dependent manner. Sirtuins are critical regulators of many cellular processes, including insulin secretion, the cell cycle and apoptosis. Sirtuins, in particular SIRT1, emerged as critical regulators of longevity and aging in several model organisms. Furthermore, a variety of age-associated diseases such as type 2 diabetes, obesity, osteoporosis, and Alzheimer's disease are associated with sirtuins. SIRT1 has been suggested as potential biomarker for tumorigenesis. Selective inhibition of SIRT2 achieves neuroprotection and identifies SIRT2 to be a potential therapeutic avenue in Huntington's and Parkinson's disease.

Sirtuin 1 (human) (IntraCellular) ELISA Kit

AG-45A-0029EK-KI01		96 wells
AG-45A-0029TP-KI01	Twin Plex	2 x 96 wells

Species reactivity:	Human
Sensitivity:	30 pg/ml
Range:	0.032 to 2 ng/ml
Detection type:	Colorimetric
Assay type:	Sandwich
Sample type:	Cell Lysate

Sirtuin 2 (human) (IntraCellular) ELISA Kit

AG-45A-0030EK-KI01		96 wells
AG-45A-0030TP-KI01	Twin Plex	2 x 96 wells

Species reactivity:	Human
Sensitivity:	80 pg/ml
Range:	0.125 to 8 ng/ml
Detection type:	Colorimetric
Assay type:	Sandwich
Sample type:	Cell Lysate

VASPIN – Potential Biomarker for Obesity

Vaspin (Visceral adipose tissue-derived serpin; Serpin A12), a serine protease inhibitor (serpin), is an insulin-sensitizing adipocytokine that has been isolated from both visceral and subcutaneous white adipose tissue. Based on recent findings, vaspin is suggested to regulate immune responses and inflammation and was found to be correlated with various metabolic parameters. Human vaspin blood levels are significantly increased in type 2 diabetes mellitus and obese patients. Thus vaspin may represent a novel biomarker for obesity and impaired insulin sensitivity and might serve as a new therapeutic target of metabolic syndrome.

Vaspin (human) ELISA Kit

The Standard!

AG-45A-0017EK-KI01		96 wells
AG-45A-0017TP-KI01	Twin Plex	2 x 96 wells
AG-45A-0017PP-KI01	Penta Plex	5 x 96 wells

Species reactivity:	Human
Sensitivity:	12 pg/ml
Range:	0.016 to 1 ng/ml
Detection type:	Colorimetric
Assay type:	Sandwich
Sample type:	Serum, Plasma, Cell Culture Supernatant

PRODUCT SPECIFIC LITERATURE REFERENCES

- Serum vaspin concentrations in human obesity and type 2 diabetes: B.S. Youn, et al.; Diabetes **57,** 372 (2008)
- Serum levels of the adipokine vaspin in relation to metabolic and renal parameters: J. Seeger, et al.; J. Clin. Endocrinol. Metab. **93,** 247 (2008)
- Metformin decreases the Adipokine Vaspin in overweight women with the polycystic ovary syndrome: Concomitant improvement in insulin sensitivity and a decrease in insulin resistance: B.K. Tan, et al.; Diabetes **57,** 1501 (2008)
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- Serum vaspin levels in type 2 diabetic women in relation to microvascular complications: N.E. Gulcelik, et al.; Eur. J. Endocrinol. **160,** 65 (2009)
- Vaspin and omentin: new adipokines differentially regulated at the site of inflammation in rheumatoid arthritis: L. Senolt, et al.; Ann. Rheum. Dis. **69,** 1410 (2010)
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- Omentin-1 and vaspin are present in the fetus and neonate, and perinatal concentrations are similar in normal and growth-restricted pregnancies: D.D. Briana, et al.; Metabolism **60,** 486 (2011)
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- Different actions of losartan and ramipril on adipose tissue activity and vascular remodeling biomarkers in hypertensive patients: G. Derosa, et al.; Hypertens. Res. **34,** 145 (2011)
- Circulating levels of the adipocytokines vaspin and omentin in patients with Kawasaki disease: A. Fioravanti, et al.; Rheumatol. Int. **(Epub ahead of print)** (2011)
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- Adipokine profile is modulated in subcutaneous adipose tissue by TNF-alpha inhibitors in patients with rheumatoid arthritis: L. Senolt, et al.; Ann. Rheum. Dis. **(Epub ahead of print)** (2011)

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Cancer / Notch Signaling

CLUSTERIN – Potential Marker of Cancers and Type 2 Diabetes

Clusterin (Apolipoprotein J; ApoJ; SP-40,40; Sulfated glycoprotein-2; SGP-2) is a heterodimeric highly conserved disulfide-linked multifunctional glycoprotein being expressed in a wide variety of tissues and secreted in all human fluids. Clusterin is supposed to have a protective role against human atherosclerosis. In patients with type 2 diabetes mellitus serum clusterin levels are significantly higher than in healthy individuals. Furthermore, body fluids level of clusterin from patients with malignant tumors, such as breast cancer, bladder cancer and prostate cancer, are elevated. Variants of the CLU gene are associated with Alzheimer's disease. CLU expression is increased in Alzheimer's disease patients. In summary, clusterin likely provides a promising novel diagnostic marker in many major human diseases like diabetes, cancers or neurodegenerative diseases.

Clusterin (human) Competitive ELISA Kit

The Standard!

AG-45A-0013EK-KI01		96 wells
AG-45A-0013TP-KI01	Twin Plex	2 x 96 wells
AG-45A-0013PP-KI01	Penta Plex	5 x 96 wells

Species reactivity:	Human
Sensitivity:	1 ng/ml
Range:	0.001 to 5 µg/ml
Detection type:	Colorimetric
Assay type:	Competitive
Sample type:	Serum, Plasma, Cell Culture Supernatant

PRODUCT SPECIFIC LITERATURE REFERENCES

- A proof-of-principle gel-free proteomics strategy for the identification of predictive biomarkers for the onset of pre-eclampsia: R.T. Blankley, et al.; BJOG **116,** 1473 (2009)
- A unique plasma proteomic profiling with imbalanced fibrinogen cascade in patients with Kawasaki disease: H.R. Yu, et al.; Pediatr. Allergy Immunol. **20,** 699 (2009)
- Clusterin in Stool: A New Biomarker for Colon Cancer Screening?: S. Pucci, et al.; Am. J. Gastroenterol. **104,** 2807 (2009)
- Plasma Clusterin Levels in Predicting the Occurrence of Coronary Artery Lesions in Patients With Kawasaki Disease: H.R. Yu, et al.; Pediatr. Cardiol. **31,** 1151 (2010)
- Clusterin and Chemotherapy Sensitivity Under Normoxic and Graded Hypoxic Conditions in Colorectal Cancer: D. Kevans, et al.; J. Gastrointest. Cancer **(Epub ahead of print)** (2011)

DLL1 & DLK1 – Key Ligands of the Notch Signaling Pathway

The Notch signaling pathway is essential for appropriate cell differentiation and cell fate decisions. The Notch ligand delta-like protein 1 (DLL1) is essential for postnatal arteriogenesis and contributes to tumor progression. DLL1 could be involved in differentiation and self-renewal of adipocyte stem cells. Thus measurement of soluble DLL1 in serum or plasma likely provides a novel indication of disease status in metabolic dysfunctions. DLK1 (Protein delta homolog 1; Preadipocyte factor 1; Pref-1) is a regulator of adipocyte differentiation found in serum and urine. DLK1 might be a decoy ligand. Serum or plasma levels of soluble DLK1 affect negatively or positively adipogenesis and control mesenchymal cell fate. DLK1 is frequently upregulated in myelodysplastic syndrome (MDS) patients compared to non-leukemic individuals.

DLL1, Soluble (human) ELISA Kit

AG-45A-0027EK-KI01		96 wells
AG-45A-0027TP-KI01	Twin Plex	2 x 96 wells
AG-45A-0027PP-KI01	Penta Plex	5 x 96 wells

Species reactivity:	Human
Sensitivity:	120 pg/ml
Range:	0.125 to 8 ng/ml
Detection type:	Colorimetric
Assay type:	Sandwich
Sample type:	Serum, Plasma, Cell Culture Supernatant

DLK1, Soluble (human) ELISA Kit

AG-45A-0032EK-KI01		96 wells
AG-45A-0032TP-KI01	Twin Plex	2 x 96 wells
AG-45A-0032PP-KI01	Penta Plex	5 x 96 wells

Species reactivity:	Human
Sensitivity:	336 pg/ml
Range:	0.47 to 30 ng/ml
Detection type:	Colorimetric
Assay type:	Sandwich
Sample type:	Serum, Cell Culture Supernatant

GPX1 – Implicated in the Development of Cancers

Glutathione peroxidase 1 (GPX1; Cellular glutathione peroxidase), a selenium-dependent antioxidant enzyme, is implicated in the development of cancer and is downregulated in many cancer cells. GPX1-overexpressing mice develop insulin resistance and obesity, which are characteristics of type 2 diabetes. GPX1 likely has a role in hyperglycemia.

GPX1 (human) ELISA Kit

AG-45A-0037EK-KI01		96 wells
AG-45A-0037TP-KI01	Twin Plex	2 x 96 wells
AG-45A-0037PP-KI01	Penta Plex	5 x 96 wells

Species reactivity:	Human
Sensitivity:	45 pg/ml
Range:	0.0625 to 4 ng/ml
Detection type:	Colorimetric
Assay type:	Sandwich
Sample type:	Plasma

GPX1 (human) (IntraCellular) ELISA Kit

AG-45A-0034EK-KI01		96 wells
AG-45A-0034TP-KI01	Twin Plex	2 x 96 wells

Species reactivity:	Human
Sensitivity:	45 pg/ml
Range:	0.063 to 4 ng/ml
Detection type:	Colorimetric
Assay type:	Sandwich
Sample type:	Cell Lysate

GPX3 – Promising Molecular Cancer Marker

Glutathione peroxidase 3 (GPX3; GSHPX3) is a selenium-dependent extracellular enzyme, protecting cells and enzymes from oxidative damage by catalyzing the reduction of hydrogen peroxide, lipid peroxides and organic hydroperoxides. GPX3 is involved in inflammatory bowel disease, in asthma and in diabetes. The activity of GPX3 is significantly reduced in the plasma and tissue of cancer patients. Recently, GPX3 was suggested to serve as a molecular marker for the diagnosis of clear cell type ovarian adenocarcinoma.

LIT: Immunohistochemical evidence for the over-expression of Glutathione peroxidase 3 in clear cell type ovarian adenocarcinoma: H. J. Lee, et al.; Med. Oncol., **Epub ahead of print,** (2010)

GPX3 (human) ELISA Kit

AG-45A-0020EK-KI01		96 wells
AG-45A-0020TP-KI01	Twin Plex	2 x 96 wells
AG-45A-0020PP-KI01	Penta Plex	5 x 96 wells

Species reactivity:	Human
Sensitivity:	100 pg/ml
Range:	0.5 to 32 ng/ml
Detection type:	Colorimetric
Assay type:	Sandwich
Sample type:	Serum, Plasma, Cell Culture Supernatant

PRODUCT SPECIFIC LITERATURE REFERENCES

- Dysregulation of Adipose Glutathione Peroxidase 3 in Obesity Contributes to Local and Systemic Oxidative Stress: Y.S. Lee, et al.; Mol. Endocrinol. **22,** 2176 (2008)
- Oxidative stress after antenatal betamethasone: Acute downregulation of glutathione peroxidase-3: J. Verhaeghe, et al.; Early Hum. Dev. **85,** 767 (2009)
- Oxidant balance markers at birth in relation to glycemicand acid-base parameters: J. Verhaeghe, et al.; Metabolism **60,** 71 (2010)

GPX3 (mouse) ELISA Kit

AG-45A-0021EK-KI01		96 wells
AG-45A-0021TP-KI01	Twin Plex	2 x 96 wells
AG-45A-0021PP-KI01	Penta Plex	5 x 96 wells

Species reactivity:	Mouse
Sensitivity:	150 pg/ml
Range:	0.5 to 32 ng/ml
Detection type:	Colorimetric
Assay type:	Sandwich
Sample type:	Serum, Plasma, Cell Culture Supernatant

Inflammation & Immunology

INTERLEUKIN-33 [IL-33] – A Multifunctional Cytokine

Interleukin-33 (IL-33; HF-NEV; IL-1F11), a member of the IL-1 family of cytokines, is expressed by many cell types following pro-inflammatory stimulation and is thought to be released on cell lysis. IL-33 affects the various cell types that express membrane ST2, which is selectively expressed by Th2 but not Th1 cells. The ability of IL-33 to target numerous immune cell types, like Th2-like cells, mast cells, and B1 cells, and to induce cytokine and chemokine production underlines its potential in influencing the outcome of a wide range of diseases, such as arthritis, asthma, atopic allergy & anaphylaxis, cardiovascular disease/atherosclerosis, nervous system diseases, and sepsis. In healthy human serum almost no IL-33 could be detected, whereas serum IL-33 levels were significantly increased in chronic active inflammation, like rheumatoid arthritis.

IL-33 (human) ELISA Kit — The Standard!

AG-45A-0033EK-KI01		96 wells
AG-45A-0033TP-KI01	Twin Plex	2 x 96 wells
AG-45A-0033PP-KI01	Penta Plex	5 x 96 wells

Species reactivity:	Human
Sensitivity:	10 pg/ml
Range:	0.016 to 1 ng/ml
Detection type:	Colorimetric
Assay type:	Sandwich
Sample type:	Serum, Plasma, Cell Culture Supernatant

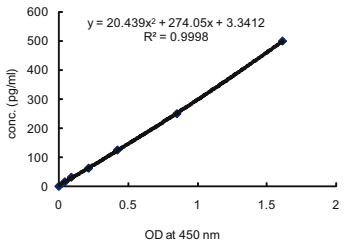
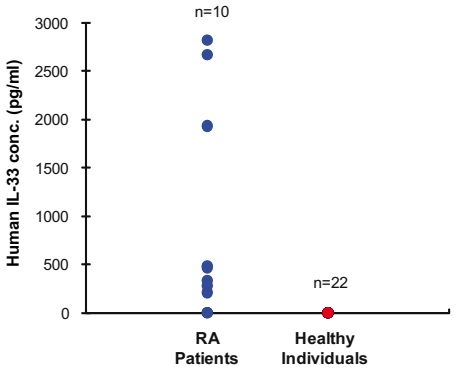


FIGURE: Mean values of the human IL-33 concentrations from 10 RA (rheumatoid arthritis) patients and 22 healthy individuals, detected with IL-33 (human) ELISA Kit (Prod. No. AG-45A-0033EK).

None of the healthy sera yielded detectable ranges of serum IL-33 recovery, whereas 7 out of the 10 RA sera showed a significant range of serum IL-33 recovery. The data clearly show that IL-33 may be an important biomarker for human rheumatoid arthritis.



IL-33 (mouse) ELISA Kit

AG-45A-0038EK-KI01		96 wells
AG-45A-0038TP-KI01	Twin Plex	2 x 96 wells
AG-45A-0038PP-KI01	Penta Plex	5 x 96 wells

Species reactivity:	Mouse
Sensitivity:	10 pg/ml
Range:	0.016 to 1 ng/ml
Detection type:	Colorimetric
Assay type:	Sandwich
Sample type:	Serum, Plasma, Cell Culture Supernatant

INTERLEUKIN-37 [IL-37] – Link between Innate & Adaptive Immunity

IL-37 (IL-1F7) belongs to the IL-1 family. It binds to interleukin-18 receptor (IL-18R) but not to IL-1 receptor. It was shown to play an important role as a link between innate and adaptive immunity and it is suggested as a new player in the inflammatory and immune responses mediated by the IL-18/IL-18R axis. It was also shown to inhibit tumor growth.

IL-37 (human) ELISA Kit

AG-45A-0041EK-KI01		96 wells
AG-45A-0041TP-KI01	Twin Plex	2 x 96 wells
AG-45A-0041PP-KI01	Penta Plex	5 x 96 wells

Species reactivity:	Human
Sensitivity:	10 pg/ml
Range:	0.016 to 1ng/ml
Detection type:	Colorimetric
Assay type:	Sandwich
Sample type:	Cell Culture Supernatant, Plasma, Serum

IL-37 (human) (IntraCellular) ELISA Kit

AG-45A-0040EK-KI01		96 wells
AG-45A-0040TP-KI01	Twin Plex	2 x 96 wells

Species reactivity:	Human
Sensitivity:	20 pg/ml
Range:	0.031 to 2 ng/ml
Detection type:	Colorimetric
Assay type:	Sandwich
Sample type:	Cell Lysate

Hypertension

ACE2 – Implicated in Hypertension & Diabetes

The renin-angiotensin system (RAS) regulates system blood pressure and renal function. Angiotensin-converting enzyme 2 (ACE2) is an enzymatically active homolog of ACE, being highly specific for angiotensin cleavage. It has been shown that ACE2 is implicated in pathophysiological states, including myocardial ischaemia, heart failure, renal failure, atherosclerosis and diabetes. If ACE2 is contributing to the development of hypertension is currently under investigation.

ACE2 (human) ELISA Kit

AG-45A-0022EK-KI01		96 wells
AG-45A-0022TP-KI01	Twin Plex	2 x 96 wells
AG-45A-0022PP-KI01	Penta Plex	5 x 96 wells

Species reactivity:	Human
Sensitivity:	293 pg/ml
Range:	0.39 to 25 ng/ml
Detection type:	Colorimetric
Assay type:	Sandwich
Sample type:	Urine, Cell Culture Supernatant

PRODUCT SPECIFIC LITERATURE REFERENCES

- Angiotensin-converting enzyme (ACE) and ACE2 levels in the cerebrospinal fluid of patients with multiple sclerosis: M. Kawajiri, et al.; Mult. Scler. **15,** 262 (2009)
- CSF angiotensin II and angiotensin-converting enzyme levels in anti-aquaporin-4 autoimmunity: T. Matsushita, et al.; J. Neurol. Sci. **295,** 41 (2010)
- Urinary ACE2 in patients with CKD: S. Mizuiri, et al.; Nephrology **16,** 567 (2011)

ACE2 (human) (IntraCellular) ELISA Kit

AG-45A-0039EK-KI01		96 wells
AG-45A-0039TP-KI01	Twin Plex	2 x 96 wells

Species reactivity:	Human
Sensitivity:	293 pg/ml
Range:	0.391 to 25 ng/ml
Detection type:	Colorimetric
Assay type:	Sandwich
Sample type:	Cell Lysate

PROGRANULIN [PGRN] – Relevant in Alzheimer's Disease

Progranulin (PGRN) is a widely expressed pluripotent growth factor which plays a role in processes such as development, wound repair and inflammation by activating signaling cascades that control cell cycle progression and cell motility. Its function in the central nervous system is of interest, as mutations in the PGRN gene were found in cases of frontotemporal degeneration (FTLD). In addition, PGRN has also been linked to tumorigenesis. New cutting-edge publications have shown that progranulin might be a biomarker not only for FTLD, but also for other types of Alzheimer's disease (AD). This new data even supposes the potential of progranulin to be a biomarker for MCI (Mild Cognitive Impairment), which would be a hallmark in AD research.

LIT: Role of progranulin as a biomarker for Alzheimer's disease: K. Sleegers, N. Brouwers, and Ch. Broeckhoven; Biomark. Med. **4,** 37 (2010)

Progranulin (human) ELISA Kit

The Standard!

AG-45A-0018EK-KI01		96 wells
AG-45A-0018TP-KI01	Twin Plex	2 x 96 wells
AG-45A-0018PP-KI01	Penta Plex	5 x 96 wells

Species reactivity:	Human
Sensitivity:	32 pg/ml
Range:	0.063 to 4 ng/ml
Detection type:	Colorimetric
Assay type:	Sandwich
Sample type:	Serum, Plasma, Cell Culture Supernatant

PRODUCT SPECIFIC LITERATURE REFERENCES

- Low plasma progranulin levels predict progranulin mutations in frontotemporal lobar degeneration: R. Ghidoni, et al.; Neurology **71,** 1235 (2008)
- Common variation in the miR-659 binding-site of GRN is a major risk factor for TDP43-positive frontotemporal dementia: R. Rademakers, et al.; Hum. Mol. Genet. **17,** 3631 (2008)
- Serum progranulin concentrations may be associated with macrophage Infiltration into omental adipose tissue: B.S. Youn, et al.; Diabetes **58,** 627 (2009)
- Plasma progranulin levels predict progranulin mutation status in frontotemporal dementia patients and asymptomatic family members: N. Finch, et al.; Brain **132,** 583 (2009)
- Progranulin plasma levels as potential biomarker for the identification of GRN deletion carriers. A case with atypical onset as clinical amnestic Mild Cognitive Impairment converted to Alzheimer's disease: M. Carecchio, et al.; J. Neurol. Sci. **287,** 291 (2009)
- Cerebrospinal fluid progranulin levels in patients with different multiple sclerosis subtypes: M. De Riz, et al.; Neurosci. Lett. **469,** 234 (2010)
- Low Serum Progranulin Predicts the Presence of Mutations: A Prospective Study: E.C. Schofield, et al.; J. Alzheimers Dis. **22,** 981 (2010)
- A Novel Progranulin Mutation Causing Frontotemporal Lobar Degeneration with Heterogeneous Phenotypic Expression: G. Rossi, et al.; J. Alzheimers Dis. **23,** 7 (2010)
- Pathogenic cysteine mutations affect progranulin function and production of mature granulins: J. Wang, et al.; J. Neurochem. **112,** 1305 (2010)
- Microglial upregulation of progranulin as a marker of motor neuron degeneration: T. Philips, et al.; J. Neuropathol. Exp. Neurol. **69,** 1191 (2010)
- A novel progranulin mutation causing frontotemporal lobar degeneration with heterogeneous phenotypic expression: G. Rossi, et al.; J. Alzheimers Dis. **23,** 7 (2011)
- rs5848 polymorphism and serum progranulin level: G.Y. Hsiung, et al.; J. Neurol. Sci. **300,** 28 (2011)
- Association of TMEM106B Gene Polymorphism With Age at Onset in Granulin Mutation Carriers and Plasma Granulin Protein Levels: C. Cruchaga, et al.; Arch. Neurol. **68,** 581 2011

Progranulin (mouse) ELISA Kit

AG-45A-0019EK-KI01		96 wells
AG-45A-0019TP-KI01	Twin Plex	2 x 96 wells
AG-45A-0019PP-KI01	Penta Plex	5 x 96 wells

Species reactivity:	Mouse
Sensitivity:	60 pg/ml
Range:	0.125 to 8 ng/ml
Detection type:	Colorimetric
Assay type:	Sandwich
Sample type:	Serum, Cell Culture Supernatant

PRODUCT SPECIFIC LITERATURE REFERENCE

- Progranulin enhances neural progenitor cell proliferation through glycogen synthase kinase 3β phosphorylation: T. Nedachi, et al.; Neuroscience **185,** 106 (2011)

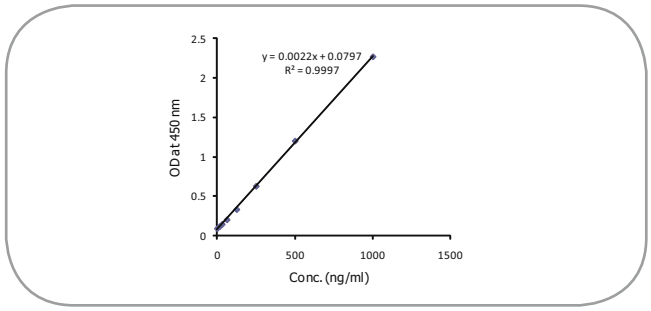
BAFF – A Key Factor in Autoimmune Diseases

BAFF (B-cell-activating factor; BLyS; B lymphocyte stimulator; TNFSF13B; TALL-1; CD257), belonging to the TNF family, is a master regulator of peripheral B cell survival, and together with IL-6, promotes Ig class-switching and plasma cell differentiation. BAFF co-stimulates activated T cells. Increased levels of soluble BAFF have been detected in the serum of patients with various autoimmune diseases, such as Sjögren's syndrome, rheumatoid arthritis, multiple sclerosis and systemic lupus erythematosus (SLE). Furthermore, BAFF is found in inflammatory sites in which there is lymphoid neogenesis. BAFF levels are elevated in patients with multiple myeloma and B cell chronic lymphoid leukemia (B-CCL).

BAFF, Soluble (human) ELISA Kit (hypersensitive)

AG-45B-0001EK-KI01 — 96 wells

Species reactivity:	Human
Sensitivity:	8 pg/ml
Range:	0.0156 to 1 ng/m
Detection type:	Colorimetric
Assay type:	Sandwich
Sample type:	Serum, Plasma, Cell Culture Supernatant



BAFF, Soluble (human) Matched Pair Detection Set

AG-46B-0001EK-KI01 — 1 Set

Species reactivity:	Human
Sensitivity:	16 pg/ml
Range:	16 to 1000 pg/ml
Sample type:	Serum, Plasma, Cell Culture Supernatant

Contains sufficient materials to run ELISAs on 5 x 96-well plates.

PRODUCT SPECIFIC LITERATURE REFERENCE

Elevated serum BAFF levels in patients with autoimmunity and lymphoproliferation: A. Janda, et al.; Scand. J. Immunol. **(Epub ahead of print)** (2011)

Enzyme-Linked Immunosorbent Assay (ELISA) Basics

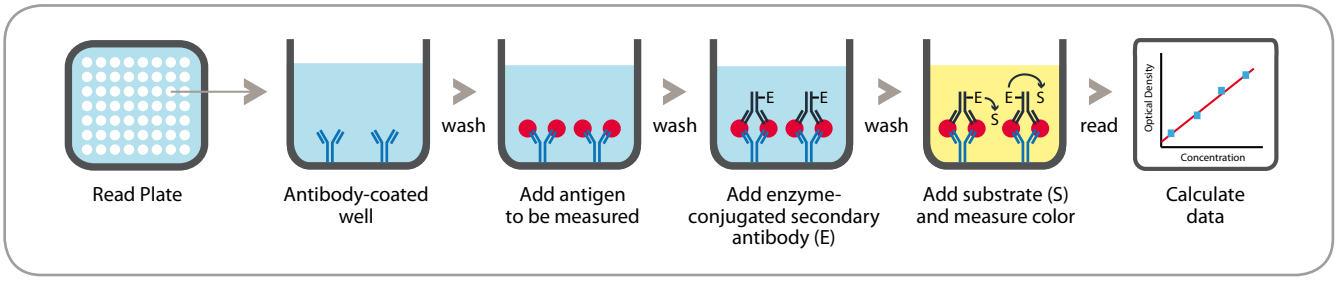
Adipogen International, Inc. offers a variety of analytically validated, preconfigured ELISA assays, reagents and accessories for the study of metabolic syndrome, inflammatory and cancer markers.

Enzyme-linked Immunosorbent Assays (ELISAs or EIAs) combine the specificity of antibodies with the sensitivity of simple enzyme assays by using antibodies or antigens coupled to an easily assayed enzyme (e.g. alkaline phosphatase, horseradish peroxidase and β-galactosidase) that possesses a high turnover number. This enzyme reacts with a colorless chromogenic substrate or a chemiluminescent/fluorescent substrate to generate a reaction product. ELISA assays approach the sensitivity of Radioimmunoassays (RIAs) and have the advantage of being safer and less costly, since they do not depend on radioactive labels. A number of variations of ELISAs have been developed, allowing qualitative detection or quantitative measurement of either antigen or antibody. Most ELISAs are used to measure quantitatively antibody or antigen levels by using a standard curve.

AdipoGen™ ELISA Assay Types

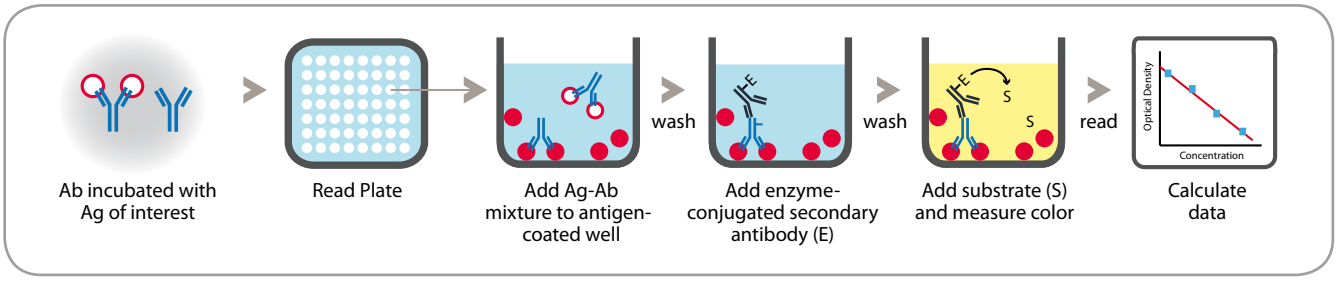
SANDWICH ELISA / INTRACELLULAR ELISA

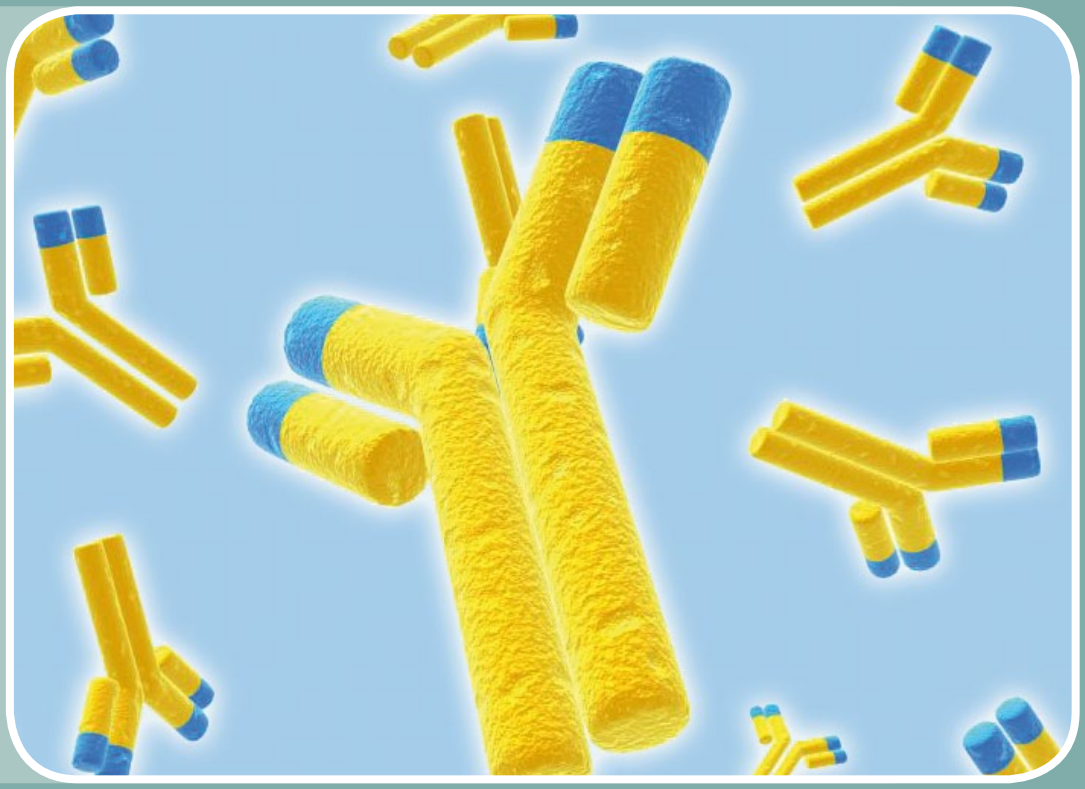
Antigen can be detected or measured by a sandwich ELISA. In this technique, the monoclonal or polyclonal antibody (rather than the antigen) is immobilized on a microtiter well. A sample containing antigen is added and allowed to react with the immobilized antibody. After the well is washed, a second enzyme-linked antibody specific for a different epitope on the antigen is added and allowed to react with the bound antigen. After any free secondary antibody is removed by washing, substrate is added and the colored reaction product is measured. Sandwich ELISAs are used to measure soluble molecules/antigens that are present in biological fluids (such as plasma, serum, urine, etc.), while intracellular ELISAs detect molecules present intracellularly and therefore need an additional step of cell lysis.



COMPETITIVE ELISA

Amounts of antigen (Ag) can also be detected by competitive ELISA. In this technique, antibody (Ab) is first incubated in solution with a sample containing antigen. The antigen-antibody (Ag-Ab) mixture is then added to an antigen-coated microtiter well. The more antigen present in the sample, the less free antibody will be available to bind to the antigen-coated well. Addition of an enzyme-conjugated secondary antibody specific for the isotype of the primary antibody or addition of an enzyme-conjugated streptavidin, can be used to determine the amount of primary antibody bound to the well. In the competitive assay, however, the higher the concentration of antigen in the original sample, the lower the absorbance.





Antibodies

- Raised against purified native proteins
- Extensively tested
- Cited in scientific publications
- Competent for different applications
- ATTO, Biotin and FITC-labeled
- Used in ELISA Kits

Antibodies

PRODUCT NAME	LABELS	PID	SIZE	CLONE	SOURCE/ ISOTYPE	APPLICATION	SPE-CIES	LIT. REF.
H ACE2 (human), mAb (AC18F)		AG-20A-0032	50 µg 100 µg	AC18F	Ms IgG1κ	ELISA, FACS, WB	Hu	✓
H ACE2 (human), mAb (AC18F)	Biotin	AG-20A-0032B	50 µg	AC18F	Ms IgG1κ	ELISA, FACS, WB	Hu	✓
H ACE2 (human), mAb (AC384)		AG-20A-0037	50 µg 100 µg	AC384	Ms IgG1κ	ELISA, WB	Hu	
H ACE2 (human), mAb (AC384)	Biotin	AG-20A-0037B	50 µg	AC384	Ms IgG1κ	ELISA, WB	Hu	
ACE2 (human), pAb		AG-25A-0042	100 µg		Rb	ELISA, WB	Hu	✓
ACE2 (human), pAb	Biotin	AG-25A-0042B	50 µg		Rb	ELISA, WB	Hu	
Adiponectin (human), mAb (ADI 943)		AG-20A-0056	50 µg	ADI 943	Ms IgG1κ	ELISA	Hu	
H Adiponectin (human), mAb (HADI 741)		AG-20A-0002	50 µg 100 µg	HADI 741	Ms IgG1κ	ELISA, WB	Hu	✓
H Adiponectin (human), mAb (HADI 773)		AG-20A-0001	50 µg 100 µg	HADI 773	Ms IgG1κ	ELISA, IHC (PS), WB	Hu	✓
Adiponectin (human), pAb		AG-25A-0003	100 µg		Rb	ELISA, WB	Hu	✓
Adiponectin (human), pAb	Biotin	AG-25A-0003B	50 µg		Rb	ELISA, WB	Hu	✓
Adiponectin (GD) (human), pAb		AG-25A-0034	100 µg		Rb	ELISA	Hu	
H Adiponectin (mouse), mAb (MADI 04)		AG-20A-0005	50 µg 100 µg	MADI 04	Rt IgG1κ	ELISA, IP, WB	Ms	
H Adiponectin (mouse), mAb (MADI 1147)		AG-20A-0003	50 µg 100 µg	MADI 1147	Ms IgG1κ	ELISA, IP, WB	Ms	✓
H Adiponectin (mouse), pAb		AG-25A-0004	100 µg		Rb	ELISA, IP, WB	Ms	✓
H Adiponectin (mouse), pAb	Biotin	AG-25A-0004B	50 µg		Rb	ELISA, IP, WB	Ms	✓
H Adiponectin (rat), mAb (RADI 06)		AG-20A-0006	50 µg 100 µg	RADI 06	Ms IgG2bκ	ELISA, WB	Rt	
Adiponectin (rat), mAb (RADI 264)		AG-20A-0036	50 µg 100 µg	RADI 264	Ms IgG1κ	ELISA, WB	Rt	
H Adiponectin (rat), pAb		AG-25A-0005	100 µg		Rb	ELISA, IHC (FS), WB	Rt	
H Adiponectin (rat), pAb	Biotin	AG-25A-0005B	50 µg		Rb	ELISA, IHC (FS), WB	Rt	
Adiponectin Receptor 1 (human), pAb (AL238)		AG-25B-0010	100 µl		Rb	IHC (PS), WB	Hu	✓
Adiponectin Receptor 2 (mouse), pAb (AL241)		AG-25B-0012	100 µl		Rb	IP	Ms	
H AIM2 (human), mAb (3B10)		AG-20B-0040	100 µg	3B10	Ms IgG1	ICC, WB	Hu	✓
ANGPTL2 (human), pAb		AG-25A-0068	100 µg		Rb	ELISA, WB	Hu	
ANGPTL3 (human), mAb (Kairos-37)		AG-20A-0039	50 µg 100 µg	Kairos-37	Ms IgG1κ	ELISA, WB	Hu	
ANGPTL3 (human), pAb		AG-25A-0046	100 µg		Rb	ELISA, WB	Hu	
ANGPTL3 (human), pAb		AG-25A-0052	100 µg		Rb	ELISA, WB	Hu	
H ANGPTL3 (CCD) (human), pAb		AG-25A-0060	100 µg		Rb	ELISA, WB	Hu	
ANGPTL3 (FLD) (human), pAb		AG-25A-0064	100 µg		Rb	ELISA, WB	Hu	
ANGPTL3 (mouse), mAb (Kairos3-1541)		AG-20A-0089	50 µg 100 µg	Kairos3-1541	Rt IgG2aκ	ELISA, WB	Ms	
ANGPTL3 (mouse), mAb (Kairos3-3741)		AG-20A-0090	50 µg 100 µg	Kairos3-3741	Rt IgG2aκ	ELISA, WB	Ms	
ANGPTL3 (mouse), pAb		AG-25A-0070	100 µg		Rb	ELISA, WB	Ms	

GENERAL: **CCD:** Coiled-coil Domain; **ED:** Ectodomain; **FLD:** Fibrinogen-like Domain; **GD:** Globular Domain; **PF:** Preservative Free **APPLICATIONS:** **EM:** Electron Microscopy; **FACS:** Flow Cytometry; **FUNC:** Functional Application; **ICC:** Immunocytochemistry; **IHC:** Immunohistochemistry (FS = Frozen Sections, PS = Paraffin Sections); **IP:** Immunoprecipitation; **WB:** Western blot
SPECIES: **Hu** = Human; **Ms** = Mouse; **Rt** = Rat; **Dg** = Dog; **Ds** = Drosophila; **Gp** = Guinea Pig; **HCV** = Hepatitis C virus; **List.** = Listeria; **Mk** = Monkey; **Pg** = Pig; **Rb** = Rabbit

PRODUCT NAME	LABELS	PID	SIZE	CLONE	SOURCE/ ISOTYPE	APPLICATION	SPE-CIES	LIT. REF.
H ANGPTL4 (human), mAb (Kairos-1)		AG-20A-0038	50 µg 100 µg	Kairos-1	Ms IgG1κ	ELISA, IHC (PS), WB	Hu	
ANGPTL4 (CCD) (human), mAb (Kairos4-153AD)		AG-20A-0046	50 µg 100 µg	Kairos4-153AD	Ms IgG1κ	ELISA, WB	Hu	
ANGPTL4 (CCD) (human), mAb (Kairos4-397G)		AG-20A-0047	50 µg 100 µg	Kairos4-397G	Ms IgG1κ	ELISA, WB	Hu	
ANGPTL4 (human), pAb		AG-25A-0038	100 µg		Rb	ELISA, WB	Hu	
ANGPTL4 (human), pAb		AG-25A-0055	100 µg		Rb	ELISA, WB	Hu	
ANGPTL4 (CCD) (human), pAb		AG-25A-0066	100 µg		Rb	ELISA, WB	Hu	
ANGPTL4 (FLD) (human), pAb		AG-25A-0065	100 µg		Rb	ELISA, WB	Hu	
ANGPTL4 (mouse), mAb (Kairos 142-2)		AG-20A-0054	100 µg	Kairos 142-2	Rt IgG2aκ	ELISA, WB	Ms	
ANGPTL4 (mouse), pAb		AG-25A-0071	100 µg		Rb	ELISA, WB	Ms	✓
ANGPTL5 (CCD) (human), pAb		AG-25A-0069	100 µg		Rb	ELISA, WB	Hu	
ANGPTL6 (human), mAb (Kairos-60)		AG-20A-0040	50 µg 100 µg	Kairos-60	Ms IgMκ	ELISA, WB	Hu	
ANGPTL6 (human), pAb		AG-25A-0030	100 µg		Rb	ELISA, WB	Hu	
ANGPTL6 (human), pAb		AG-25A-0037	100 µg		Rb	ELISA, WB	Hu	
H ANGPTL7 (human), mAb (Kairos 108-4)		AG-20A-0053	100 µg	Kairos 108-4	Ms IgG1κ	ELISA, IHC, WB	Hu	
ANGPTL7 (human), mAb (Kairos 397-7)		AG-20A-0055	100 µg	Kairos 397-7	Ms IgG1κ	ELISA, WB	Hu	
ANGPTL7 (human), pAb		AG-25A-0050	100 µg		Rb	ELISA, WB	Hu	
ANGPTL7 (CCD) (human), pAb		AG-25A-0095	100 µg		Rb	ELISA, WB	Hu	
H APRIL (mouse), mAb (rec.) (blocking) (Apry-1-1)		AG-27B-0001	100 µg	Apry-1-1	Ms IgG2bλ	ELISA, IP, FUNC (Blocking)	Ms	
H APRIL (mouse), mAb (rec.) (blocking) (Apry-1-1)	PF	AG-27B-0001PF	100 µg	Apry-1-1	Ms IgG2bλ	ELISA, IP, FUNC (Blocking)	Ms	
H APRIL (mouse), mAb (rec.) (blocking) (Apry-1-1)	Biotin	AG-27B-0001B	100 µg	Apry-1-1	Ms IgG2bλ	ELISA, IP, FUNC (Blocking)	Ms	
H Asc, pAb (AL177)		AG-25B-0006	100 µg		Rb	ICC, IHC (PS), IP, WB, FUNC (Blocking)	Hu, Ms	✓

GENERAL: **CCD:** Coiled-coil Domain; **ED:** Ectodomain; **FLD:** Fibrinogen-like Domain; **GD:** Globular Domain; **PF:** Preservative Free **APPLICATIONS:** **EM:** Electron Microscopy; **FACS:** Flow Cytometry; **FUNC:** Functional Application; **ICC:** Immunocytochemistry; **IHC:** Immunohistochemistry (FS = Frozen Sections, PS = Paraffin Sections); **IP:** Immunoprecipitation; **WB:** Western blot
SPECIES: **Hu** = Human; **Ms** = Mouse; **Rt** = Rat; **Dg** = Dog; **Ds** = Drosophila; **Gp** = Guinea Pig; **HCV** = Hepatitis C virus; **List.** = Listeria; **Mk** = Monkey; **Pg** = Pig; **Rb** = Rabbit

Highlights H

anti-ANGPTL4 (human), mAb (Kairos-1)

AG-20A-0038-C050 50 µg
AG-20A-0038-C100 100 µg

CLONE: Kairos-1.

ISOTYPE: Mouse IgG1κ.

IMMUNOGEN: Recombinant human ANGPTL4.

SPECIFICITY: Recognizes the fibrinogen-like domain (FLD) of human ANGPTL4. Detects a band of ~62kDa and ~35kDa by Western blot. Does not cross-react with other ANGPTL family proteins.

APPLICATION: ELISA, IHC (PS), WB.

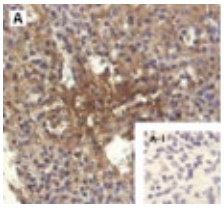


FIGURE: Immunohistochemical staining of human tissue using anti-ANGPTL4 (human), mAb (Kairos-1) (Prod. No. AG-20A-0038) at 1:500 dilution.

A. Immunoperoxidase staining of formalin-fixed, paraffin-embedded human spleen (200x).

A-1. Isotype control (negative control).

PRODUCT NAME	LABELS	PID	SIZE	CLONE	SOURCE/ ISOTYPE	APPLICATION	SPE-CIES	LIT. REF.
BAFF (human), mAb (1-35-1)		AG-20B-0037	100 µg	1-35-1	Rt IgG2aκ	FACS	Hu	
BAFF (human), mAb (2.81)		AG-20B-0018	100 µg	2.81	Rt IgG2b	ELISA, IP	Hu	
BAFF (human), mAb (blocking) (4.62)		AG-20B-0017	100 µg	4.62	Rt IgG2a	ELISA, IP, FUNC (Blocking)	Hu	
BAFF (human), mAb (blocking) (4.62)	Biotin	AG-20B-0017B	100 µg	4.62	Rt IgG2a	ELISA, IP, FUNC (Blocking)	Hu	
BAFF-R (human), mAb (HuBR9.1)		AG-20B-0016	100 µg	HuBR9.1	Ms IgG1	FACS	Hu	
BAFF-R (human), mAb (HuBR9.1)	Biotin	AG-20B-0016B	100 µg	HuBR9.1	Ms IgG1	FACS	Hu	
BAFF-R (human), mAb (HuBR9.1)	ATTO 488	AG-20B-0016TD	100 Tests	HuBR9.1	Ms IgG1	FACS	Hu	
BAFF-R (human), mAb (HuBR9.1)	ATTO 647N	AG-20B-0016TS	100 Tests	HuBR9.1	Ms IgG1	FACS	Hu	
BAFF-R (mouse), mAb (9B9)		AG-20B-0034	100 µg	9B9	Rt IgG2b	FACS, FUNC	Ms	✓
BAFF-R (mouse), mAb (9B9)	PF	AG-20B-0034PF	100 µg	9B9	Rt IgG2b	FACS, FUNC	Ms	✓
BAFF-R (mouse), mAb (9B9)	Biotin	AG-20B-0034B	100 µg	9B9	Rt IgG2b	FACS	Ms	✓
BAFF-R (mouse), mAb (9B9)	ATTO 647N	AG-20B-0034TS	100 Tests	9B9	Rt IgG2b	FACS	Ms	✓
Calreticulin (human), mAb (CR213-2AG)		AG-20A-0079	50 µg 100 µg	CR213-2AG	Ms IgG1κ	ELISA, WB	Hu	
Calreticulin (human), pAb		AG-25A-0094	100 µg		Rb	ELISA, WB	Hu	
Cardif (human), mAb (Adri-1)		AG-20B-0004	100 µg	Adri-1	Ms IgG2b	ICC, IHC (PS), IP, WB	Hu	✓
CARMA1, pAb (AL220)		AG-25B-0004	100 µl		Rb	ICC, IHC, WB	Hu, Ms	✓
CD40 (mouse), mAb (FGK45)		AG-20B-0036	100 µg 500 µg	FGK45	Rt IgG2a	FACS, FUNC	Ms	✓
CD40 (mouse), mAb (FGK45)	PF	AG-20B-0036PF	100 µg 500 µg	FGK45	Rt IgG2a	FACS, FUNC	Ms	✓
CD137 (human), pAb		AG-25A-0018	100 µg		Rb	FACS, WB	Hu	
CD137 (mouse), mAb (M4173)		AG-20A-0072	50 µg 100 µg	M4173	Rt IgG1κ	FACS, WB	Ms	
CD137 (mouse), mAb (M4202)		AG-20A-0062	50 µg	M4202	Rt IgG1κ	FACS	Ms	
CD137 (mouse), pAb		AG-25A-0085	100 µg		Rt	FACS, WB	Ms	
CD137L (human), mAb (41B436)		AG-20A-0031	50 µg 100 µg	41B436	Ms IgG1κ	ELISA, FACS, WB	Hu	✓
CD137L (human), mAb (41B446)		AG-20A-0063	50 µg	41B446	Ms IgG1κ	FACS, WB	Hu	
Clusterin (human), pAb		AG-25A-0049	100 µg		Rb	ELISA, WB	Hu	
Clusterin (human), pAb		AG-25A-0099	100 µg		Rb	ELISA, WB	Hu	
Clusterin (human), pAb	Biotin	AG-25A-0099B	50 µg		Rb	ELISA, WB	Hu	
Clusterin (mouse), pAb		AG-25A-0054	100 µg		Rb	ELISA, WB	Ms	
Cornulin (human), pAb (SZ1229)		AG-25B-0016	50 µg		Rb	IHC (FS), WB	Hu	✓
CTRP1 (human), pAb		AG-25A-0114	100 µg		Gp	ELISA, IP, WB	Hu	
CTRP2 (human), pAb		AG-25A-0115	100 µg		Gp	ELISA, IP, WB	Hu	
CTRP3 (human), pAb		AG-25A-0107	100 µg		Gp	ELISA, WB	Hu	
CTRP3 (GD) (human), pAb		AG-25A-0110	100 µg		Rb	ELISA, WB	Hu	
CTRP5 (human), pAb		AG-25A-0116	100 µg		Gp	ELISA, IP, WB	Hu	
CTRP5 (GD) (human), pAb		AG-25A-0096	100 µg		Rb	ELISA, WB	Hu	
CTRP5 (human), pAb		AG-25A-0103	100 µg		Rb	ELISA, WB	Hu	
CTRP6 (human), pAb		AG-25A-0108	100 µg		Gp	ELISA, WB	Hu	
CTRP7 (human), pAb		AG-25A-0117	100 µg		Gp	ELISA, IP, WB	Hu	
CTRP7 (GD) (human), pAb		AG-25A-0097	100 µg		Rb	ELISA, WB	Hu	

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PRODUCT NAME	LABELS	PID	SIZE	CLONE	SOURCE/ ISOTYPE	APPLICATION	SPE-CIES	LIT. REF.
CTRP9 (human), pAb		AG-25A-0109	100 µg		Gp	ELISA, WB	Hu	
CTRP9 (GD) (human), pAb		AG-25A-0098	100 µg		Rb	ELISA, WB	Hu	
CX3CL1 (human), pAb		AG-25A-0072	100 µg		Gp	ELISA, WB	Hu	
CYLD (human), pAb (AF888)		AG-25B-0009	50 µg		Rb	ICC, WB	Hu	✓
DLK1 (human), mAb (PF13-3)		AG-20A-0069	50 µg 100 µg	PF13-3	Ms IgG1κ	ELISA, FACS, IHC, WB	Hu	
DLK1 (human), mAb (PF299-1)		AG-20A-0070	50 µg 100 µg	PF299-1	Ms IgG1κ	ELISA, FACS, IHC (PS), WB	Hu	
DLK1 (human), pAb		AG-25A-0091	100 µg		Rt	ELISA, FACS, WB	Hu	
DLK1 (human), pAb		AG-25A-0092	100 µg		Rb	ELISA, WB	Hu	
DLK1 (mouse), mAb (PF105B)		AG-20A-0057	50 µg 100 µg	PF105B	Rt IgG2aκ	ELISA, WB	Ms	✓
DLK1 (mouse), mAb (PF183E)		AG-20A-0058	50 µg 100 µg	PF183E	Rt IgG2aκ	ELISA, WB	Ms	
DLL1 (human), mAb (D1L165-6)		AG-20A-0074	50 µg 100 µg	D1L165-6	Ms IgG1κ	ELISA, WB	Hu	✓
DLL1 (human), pAb		AG-25A-0062	100 µg		Rb	ELISA, IHC (PS), WB	Hu	
DLL1 (human), pAb		AG-25A-0079	100 µg		Rt	ELISA, WB	Hu	✓
DLL1 (mouse), mAb (D1L357-1-4)		AG-20A-0085	50 µg 100 µg	D1L357-1-4	Rt IgG2κ	ELISA, WB	Ms	
DLL4 (human), mAb (DL86-3AG)		AG-20A-0080	50 µg 100 µg	DL86-3AG	Ms IgG1κ	ELISA, WB	Hu	
DLL4 (human), pAb		AG-25A-0080	100 µg		Rt	ELISA, WB	Hu	
DNER (human), mAb (DR324-4)		AG-20A-0078	50 µg 100 µg	DR324-4	Ms IgG2aκ	ELISA, WB	Hu	
DNER (human), pAb		AG-25A-0102	100 µg		Rb	ELISA, WB	Hu	
EGFP, mAb (rec.) (G3)		AG-27B-0007	100 µg	G3	Hu IgG2λ	ELISA, ICC, IP, WB	All	✓
FABP3 (human), pAb		AG-25A-0040	100 µg		Rb	ELISA, WB	Hu	
FABP4 (human), pAb		AG-25A-0041	100 µg		Rb	ELISA, WB	Hu	
FGF-19 (human), mAb (FG369-1)		AG-20A-0066	50 µg 100 µg	FG369-1	Ms IgG1κ	ELISA, WB	Hu	

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Highlights

anti-DLK1 (human), mAb (PF299-1)

AG-20A-0070-C050 50 µg
AG-20A-0070-C100 100 µg

CLONE: PF299-1.

ISOTYPE: Mouse IgG1κ.

IMMUNOGEN: Recombinant human DLK1 (extracellular domain).

SPECIFICITY: Recognizes human DLK1. Does not cross-react with mouse DLK1.

APPLICATION: ELISA, FACS, IHC (PS), WB.

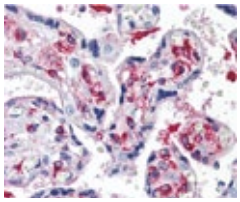

FIGURE: Immunohistochemical staining of DLK1 using anti-DLK1 (human), mAb (PF299-1) (Prod. No. AG-20A-0070) in placenta, villi (1:500 dilution).

This antibody has been tested in immunohistochemistry, analyzed by an anatomic pathologist and validated for use in IHC applications against formalin-fixed, paraffin-embedded human tissues. The image shows the localization of the antibody as the precipitated red signal, with a hematoxylin purple nuclear counterstain.

PRODUCT NAME	LABELS	PID	SIZE	CLONE	SOURCE/ ISOTYPE	APPLICATION	SPE-CIES	LIT. REF.
FGF-19 (human), mAb (FG98-6)		AG-20A-0065	50 µg 100 µg	FG98-6	Ms IgG2bκ	ELISA, WB	Hu	
FGF-21 (human), mAb (FG204-3)		AG-20A-0067	50 µg 100 µg	FG204-3	Ms IgG2bκ	ELISA, WB	Hu	
FGF-21 (human), mAb (FG348-1)		AG-20A-0068	50 µg 100 µg	FG348-1	Ms IgG1κ	ELISA, WB	Hu	
FGF-21 (mouse), pAb		AG-25A-0076	100 µg		Rb	ELISA, WB	Ms	
FGF-21, mAb (FG224-7)		AG-20A-0051	100 µg	FG224-7	Rt IgG1κ	ELISA, WB	Ms, Hu	
FGF-21, pAb		AG-25A-0074	100 µg		Rb	ELISA, IHC (PS), WB	Hu, Ms	
FGF-23 (human), mAb (FG322-3)		AG-20A-0073	50 µg 100 µg	FG322-3	Ms IgG1κ	ELISA, IHC (PS), WB	Hu	
Fis1, pAb		AG-25B-0007	100 µl		Rb	ICC, IP, WB	Hu, Ms, Rt	✓
FLIP, mAb (Dave-2)		AG-20B-0005	100 µg	Dave-2	Rat IgG2a	IP, WB	Hu, Ms	✓
FOXP3 (mouse), mAb (MF333F)		AG-20A-0025	50 µg 100 µg	MF333F	Rt IgG2aκ	ELISA, ICC, IHC, WB	Ms	✓
FOXP3 (mouse), pAb		AG-25A-0020	100 µg		Rt	ELISA, WB	Ms	
FOXP3 (mouse), pAb		AG-25A-0035	100 µg		Rb	ELISA, WB	Ms	
FTO (human), mAb (AG103)		AG-20A-0092	50 µg 100 µg	AG103	Ms IgG2aκ	ELISA, IHC (PS), IP, WB	Hu	
FTO (human), mAb (FT86-4)		AG-20A-0064	50 µg 100 µg	FT86-4	Ms IgG1κ	ELISA, IP, WB	Hu, Ms, Rt	
FTO (human), pAb		AG-25A-0084	100 µg		Rb	ELISA, WB	Hu	
FTO (mouse), mAb (FT342-1)		AG-20A-0088	50 µg 100 µg	FT342-1	Rt IgG2aκ	ELISA, WB	Ms, Rt	
FTO (mouse), mAb (FT62-6)		AG-20A-0083	50 µg 100 µg	FT62-6	Ms IgG1κ	ELISA, IHC (PS), IP, WB	Ms	
FTO (mouse), pAb		AG-25A-0089	100 µg		Rb	ELISA, IHC, WB	Ms	
Giantin, mAb (rec.) (TA10)		AG-27B-0003	100 µg	TA10	Hu IgG2λ	ICC	Hu, Ms	✓
Giantin, mAb (rec.) (TA10)	ATTO 488	AG-27B-0003TD	100 µg	TA10	Hu IgG2λ	ICC	Hu, Ms	✓
GITR (human), mAb (AIT 158D)		AG-20A-0017	50 µg 100 µg	AIT 158D	Rt IgG2aκ	ELISA, FACS	Hu	
GITR (human), pAb		AG-25A-0017	100 µg		Rt	ELISA, FACS	Hu	
GITR (mouse), mAb (MGIT 02)		AG-20A-0007	50 µg 100 µg	MGIT 02	Rt IgG2aκ	ELISA, FACS	Ms	✓
GITR (mouse), mAb (MGIT 07)		AG-20A-0008	50 µg 100 µg	MGIT 07	Rt IgG2aκ	ELISA, FACS, WB	Ms	
GITR (mouse), pAb		AG-25A-0001	100 µg		Rt	ELISA, FACS, WB	Ms	✓
GITR (mouse), pAb	Biotin	AG-25A-0001B	50 µg		Rt	ELISA, FACS, WB	Ms	✓
GITRL (human), pAb		AG-25A-0023	100 µg		Rb	ELISA, WB	Hu	
GITRL (mouse), mAb (MGTL 10)		AG-20A-0009	50 µg 100 µg	MGTL 10	Rt IgG2aκ	ELISA, FACS	Ms	✓
GITRL (mouse), mAb (MGTL 15)		AG-20A-0010	50 µg 100 µg	MGTL 15	Rt IgG2aκ	ELISA, FACS, WB	Ms	
GITRL (mouse), pAb		AG-25A-0002	100 µg		Rb	ELISA, FACS, WB	Ms	✓
GITRL (mouse), pAb	Biotin	AG-25A-0002B	50 µg		Rb	ELISA, FACS, WB	Ms	✓
GITRL (mouse), pAb		AG-25A-0024	100 µg		Rt	ELISA, FACS, WB	Ms	

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GPX1 (human), pAb		AG-25A-0104	100 µg		Rb	ELISA, WB	Hu	
GPX3, pAb		AG-25A-0073	100 µg		Rb	ELISA, WB	Ms	✓
GPX3, pAb	Biotin	AG-25A-0073B	50 µg		Rb	ELISA, WB	Ms	✓
Granulin C (human), pAb		AG-25A-0090	100 µg		Rb	ELISA, WB	Hu	
HMGB1, mAb (rec.) (Giby-1-4)		AG-27B-0002	100 µg	Giby-1-4	Hu IgG2λ	ELISA, WB	Hu, Ms, Rt	
IDO (human), mAb (ID 177)		AG-20A-0035	50 µg 100 µg	ID 177	Ms IgG1κ	ELISA, WB	Hu	
IDO (human), pAb		AG-25A-0029	100 µg		Rb	ELISA, FACS, ICC, WB	Hu	✓
IDO (mouse), pAb		AG-25A-0032	100 µg		Rb	ELISA, ICC, IHC, WB	Ms	✓
IL-17A (human), mAb (17-142F)		AG-20A-0071	50 µg 100 µg	17-142F	Ms IgG1κ	ELISA, FACS	Hu	
IL-17A (human), mAb (17-142F)	FITC	AG-20A-0071F	50 µg	17-142F	Ms IgG1κ	FACS	Hu	
IL-23p19 (human), mAb (I 178G)		AG-20A-0027	50 µg 100 µg	I 178G	Rt IgG2aκ	ELISA, WB	Hu	
IL-23p19 (human), mAb (I 338H)		AG-20A-0028	50 µg 100 µg	I 338H	Rt IgG2aκ	ELISA, WB	Hu	
IL-23p19, pAb		AG-25A-0056	100 µg		Rb	ELISA, WB	Hu, Ms	
IL-23p40 (human), mAb (I 1108)		AG-20A-0033	50 µg 100 µg	I 1108	Ms IgG1κ	ELISA, WB	Hu	
IL-33 (human), mAb (IL33305B)		AG-20A-0041	50 µg 100 µg	IL33305B	Ms IgG2aκ	ELISA, IHC (PS), IP, WB, FUNC (Blocking),	Hu	✓
IL-33 (human), pAb		AG-25A-0045	100 µg		Rb	ELISA, IHC, WB	Hu	✓
IL-33 (human), pAb	Biotin	AG-25A-0045B	50 µg		Rb	ELISA, IHC, WB	Hu	✓
IL-33 (mouse), pAb		AG-25A-0047	100 µg		Rb	ELISA, WB	Ms	✓
IL-33, mAb (IL33068A)		AG-20A-0042	50 µg 100 µg	IL33068A	Ms IgG2bκ	ELISA, WB	Hu	
IL-33, mAb (IL33026B)		AG-20A-0043	50 µg 100 µg	IL33026B	Ms IgG1κ	ELISA, IP, WB	Hu, Ms	

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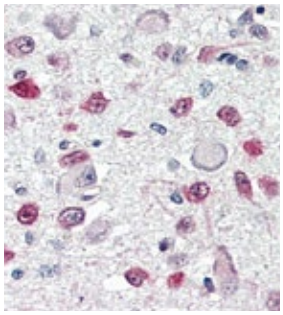
Highlights

anti-FTO (human), mAb (AG103)

AG-20A-0092-C050 50 µg
AG-20A-0092-C100 100 µg

CLONE: AG103.
ISOTYPE: Mouse IgG2aκ.
IMMUNOGEN: Recombinant human FTO.
SPECIFICITY: Recognizes human FTO.
APPLICATION: ELISA, IHC (PS), IP, WB.

FIGURE: Immunohistochemical staining of FTO with anti-FTO (human), mAb (AG103) (Prod. No. AG-20A-0092) in brain, hypothalamus and paraventricular nucleus (5~10 µg/ml).



PRODUCT NAME	LABELS	PID	SIZE	CLONE	SOURCE/ ISOTYPE	APPLICATION	SPE-CIES	LIT. REF.
H IL-37 (human), pAb		AG-25A-0111	100 µg		Rb	ELISA, IP, WB	Hu	
Intelectin-2 (human) (IN100), pAb		AG-25B-0023	100 µg		Rb	IP, WB	Hu	
H Jagged-1 (human), mAb (J1G53-3)		AG-20A-0049	100 µg	J1G53-3	Ms IgG1κ	ELISA, FACS, IHC (PS), WB	Hu	
H Jagged-1 (human), mAb (J1G53-3)	FITC	AG-20A-0049F	50 µg	J1G53-3	Ms IgG1κ	FACS	Hu	
H Jagged-1 (human), mAb (J1G53-3)	PerCP	AG-20A-0049PC	50 µg	J1G53-3	Ms IgG1κ	FACS	Hu	
H Jagged-1 (human), mAb (J1G74-7)		AG-20A-0050	100 µg	J1G74-7	Ms IgG1κ	ELISA, FACS, WB	Hu	
Jagged-1 (human), pAb		AG-25A-0081	100 µg		Rt	ELISA, WB	Hu	
H LAG-3 (human), mAb (blocking) (17B4)		AG-20B-0012	100 µg	17B4	Ms IgG1	ICC, IHC (FS), IP, WB, FUNC	Hu	✓
H LAG-3 (human), mAb (blocking) (17B4)	PF	AG-20B-0012PF	100 µg	17B4	Ms IgG1	ICC, IHC (FS), IP, WB, FUNC	Hu	✓
H LAG-3 (human), mAb (17B4)	Biotin	AG-20B-0012B	100 µg	17B4	Ms IgG1	ELISA	Hu	✓
H LAG-3 (human), mAb (17B4)	FITC	AG-20B-0012F	100 µg	17B4	Ms IgG1	FACS	Hu	✓
H LAG-3 (human), mAb (17B4)	ATTO 488	AG-20B-0012TD	100 Tests	17B4	Ms IgG1	FACS, ICC	Hu	✓
H LAG-3 (human), mAb (17B4)	ATTO 590	AG-20B-0012TM	100 Tests	17B4	Ms IgG1	ICC	Hu	✓
H LAG-3 (human), mAb (17B4)	ATTO 647N	AG-20B-0012TS	100 Tests	17B4	Ms IgG1	FACS, ICC	Hu	✓
H LAG-3, mAb (blocking) (11E3)		AG-20B-0011	100 µg	11E3	Ms IgG1	ELISA, ICC, IHC (FS), IP, WB, FUNC	Hu, Mk	✓
Leptin (human), mAb (HLEP 155)		AG-20A-0019	50 µg 100 µg	HLEP 155	Ms IgG1κ	ELISA, WB	Hu	
Leptin (human), mAb (HLEP 55G)		AG-20A-0011	50 µg 100 µg	HLEP 55G	Ms IgG2bκ	ELISA, WB	Hu	
Leptin (human), pAb		AG-25A-0007	100 µg		Rb	ELISA, IP, WB	Hu	
Leptin (human), pAb	Biotin	AG-25A-0007B	50 µg		Rb	ELISA, IP, WB	Hu	
Leptin (mouse), pAb		AG-25A-0008	100 µg		Rb	ELISA, IP, WB	Ms	
Leptin (mouse), pAb	Biotin	AG-25A-0008B	50 µg		Rb	ELISA, IP, WB	Ms	
Leptin (rat), mAb (RLEP 227)		AG-20A-0018	50 µg 100 µg	RLEP 227	Ms IgG2aκ	ELISA, WB	Rt	
Leptin (rat), pAb		AG-25A-0009	100 µg		Rb	ELISA, WB	Rt	
Leptin (rat), pAb	Biotin	AG-25A-0009B	50 µg		Rb	ELISA, WB	Rt	
Lipocalin-2 (human), pAb		AG-25A-0087	100 µg		Rb	ELISA, WB	Hu, Ms, Rt	
Lipocalin-2 (mouse), pAb		AG-25A-0086	100 µg		Rb	ELISA, WB	Ms, Hu, Rt	
Lipocalin-2 (rat), pAb		AG-25A-0088	100 µg		Rb	ELISA, WB	Rt, Hu, Ms	
Listeria monocytogenes p60, mAb (p6007)		AG-20A-0022	50 µg 100 µg	p6007	Ms IgG1κ	ELISA, WB	List. mon.	✓
Listeria sp. p60, mAb (p6017)		AG-20A-0023	50 µg 100 µg	p6017	Ms IgG1κ	ELISA, WB	List. mon.	✓
Listeria sp. p60, pAb		AG-25A-0019	100 µg		Rb	ELISA, WB	List. sp.	✓
H LTβR (mouse), mAb (3C8)		AG-20B-0041	100 µg	3C8	Rt IgG1κ	FUNC (Blocking)	Ms	✓
H LTβR (mouse), mAb (3C8)	PF	AG-20B-0041PF	100 µg	3C8	Rt IgG1κ	FUNC (Blocking)	Ms	✓

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LTβR (mouse), mAb (4H8 WH2)		AG-20B-0008	100 µg	4H8 WH2	Rt IgG2a	FACS, FUNC (Block-ing)	Ms	✓
MDA5 (human), mAb (Hely-1)		AG-20B-0013	100 µg	Hely-1	Ms IgG1	ELISA, IP, WB	Hu	
MDA5 (mouse), pAb (AL180)		AG-25B-0001	100 µl		Rb	IHC (FS), WB	Ms	✓
MFAP4 (human), pAb		AG-25A-0061	100 µg		Rb	ELISA, WB	Hu	
Myosin IIA (non-muscle) (heavy chain), mAb (rec.) (SF9)		AG-27B-0010	100 µg	SF9	Hu IgG2λ	ELISA, ICC, WB, EM	Hu, Ms, Rt, Ds	✓
Nampt (Visfatin/PBEF) (human), pAb		AG-25A-0025	100 µg		Rb	ELISA, IHC (PS), WB	Hu	✓
Nampt (Visfatin/PBEF) (human), pAb	Biotin	AG-25A-0025B	50 µg		Rb	ELISA, IHC (PS), WB	Hu	✓
Nampt (Visfatin/PBEF) (human), pAb (CT)		AG-25A-0027	100 µg		Rb	ELISA, WB	Hu	
Nampt (Visfatin/PBEF) (human), pAb (NT)		AG-25A-0026	100 µg		Rb	ELISA, IHC (FS), WB	Hu	✓
Nampt (Visfatin/PBEF) (mouse), pAb		AG-25A-0028	100 µg		Rb	ELISA, WB	Ms	
Nampt (Visfatin/PBEF) (rat), pAb		AG-25A-0033	100 µg		Rb	ELISA, WB	Rt	
Nampt (Visfatin/PBEF), mAb (OMNI379)		AG-20A-0034	50 µg 100 µg	OMNI379	Ms IgG2aκ	ELISA, FACS, ICC, IHC (PS), IP, WB	Hu, Ms, Rt	✓
Nampt (Visfatin/PBEF), mAb (OMNI379)	Biotin	AG-20A-0034B	50 µg	OMNI379	Ms IgG2aκ	ELISA, ICC, IHC (PS), WB	Hu, Ms, Rt	✓
Netrin-4, mAb (Nely-1)		AG-20B-0039	100 µg	Nely-1	Ms IgG1κ	ELISA, WB	Hu, Ms	
Netrin-4, mAb (Nely-1)	Biotin	AG-20B-0039B	100 µg	Nely-1	Ms IgG1κ	ELISA, WB	Hu, Ms	
NLRP1/NALP1 (human), pAb (AL176)		AG-25B-0005	100 µg		Rb	WB	Hu	✓
NLRP3/NALP3 (mouse), mAb (Cryo-1)		AG-20B-0006	100 µg	Cryo-1	Ms IgG2b	WB	Ms	
NLRP3/NALP3, mAb (Cryo-2)		AG-20B-0014	100 µg	Cryo-2	Ms IgG2b	WB	Ms, Hu	✓
NLRP12/NALP12 (human), pAb (AL236)		AG-25B-0021	100 µg		Rb	IP, WB	Hu	
NMNAT2 (human), mAb (Nady-1)		AG-20A-0087	50 µg 100 µg	Nady-1	Ms IgG1κ	ELISA, WB	Hu	

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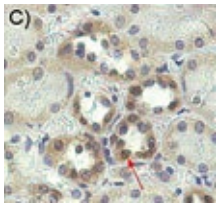
Highlights

anti-Nampt (Visfatin/PBEF), mAb (OMNI379)

AG-20A-0034-C050		50 µg
AG-20A-0034-C100		100 µg
AG-20A-0034B-C050	Biotin	50 µg

CLONE: OMNI379.
ISOTYPE: Mouse IgG2aκ.
IMMUNOGEN: Recombinant human Nampt (visfatin/PBEF).
SPECIFICITY: Recognizes human, mouse and rat Nampt.
APPLICATION: ELISA, FACS, ICC, IHC (PS), IP, WB.

FIGURE: Immunohistochemical staining of Nampt using anti-Nampt (OMNI379) (Prod. No. AG-20A-0034) in human tissue (1:500 dilution). Immunoperoxidase staining of formalin-fixed, paraffin-embedded human kidney showing cytoplasmic staining (200x, brown color).



LIT: Hypoxic induction of human visfatin gene is directly mediated by hypoxia-inducible factor-1: S.K. Bae, et al.; FEBS Lett. **580,** 4105 (2006) • Molecular Characteristics of Serum Visfatin and Differential Detection by Immunoassays: A. Korner, et al.; J. Clin. Endocrinol. Metab. **92,** 4783 (2007) • Nampt/PBEF/Visfatin Regulates Insulin Secretion in beta Cells as a Systemic NAD Biosynthetic Enzyme: J.R. Revollo, et al.; Cell. Metab. **6,** 363 (2007) • Nicotinamide phosphoribosyltransferase (NAMPT/PBEF/visfatin) is constitutively released from human hepatocytes: A. Garten, et al.; BBRC **391,** 376 (2010)

PRODUCT NAME	LABELS	PID	SIZE	CLONE	SOURCE/ ISOTYPE	APPLICATION	SPE-CIES	LIT. REF.
NMNAT2 (human), pAb		AG-25A-0113	100 µg		Gp	ELISA, WB	Hu	
Nod1 (human), pAb (AL184)		AG-25B-0013	50 µg		Rb	WB	Hu	✓
NQO1 (human), mAb (Skiny-1)		AG-20A-0086	50 µg 100 µg	Skiny-1	Ms IgG2aκ	ELISA, WB	Hu	
NQO1 (human), pAb		AG-25A-0105	100 µg		Rb	ELISA, WB	Hu	
NS3 (HCV), mAb (1B6)		AG-20B-0001	100 µg	1B6	Ms IgG0	ICC, WB	HCV	✓
NS5B (HCV), mAb (5B-3B1)		AG-20B-0002	100 µg	5B-3B1	Ms IgG2b	WB	HCV	✓
NS5B (HCV), mAb (blocking) (5B-12B7)		AG-20B-0003	100 µg	5B-12B7	Ms IgG2a	ICC, IP, FUNC (Blocking)	HCV	✓
NUCB2 (mouse), pAb		AG-25A-0057	100 µg		Rb	ELISA, WB	Ms	
Obestatin (human), pAb		AG-25A-0043	100 µg		Rb	ELISA	Hu, Ms	
Obestatin (mouse), pAb		AG-25A-0044	100 µg		Rb	ELISA	Ms, Hu	
Omentin (human), mAb (Lecty-1)		AG-20B-0031	100 µg	Lecty-1	Ms IgG2bκ	ELISA, WB	Hu	
Omentin (human), pAb		AG-25A-0051	100 µg		Rb	ELISA, WB	Hu	
Periostin [OSF-2], mAb (Stiny-1)		AG-20B-0033	100 µg	Stiny-1	Ms IgG1κ	ELISA, IHC (FS, PS), WB	Hu, Ms	
PIDD (human), pAb (AL233)		AG-25B-0015	50 µg		Rb	IHC (PS), IP, WB	Hu, Ms	✓
PIDD (mouse), mAb (Lise-1)		AG-20B-0038	100 µg	Lise-1	Ms IgG2bκ	WB	Ms	
β-Pix (mouse), pAb		AG-25A-0006	100 µg		Rb	ELISA, ICC, WB	Hu, Ms, Rt	✓
β-Pix (mouse), pAb	Biotin	AG-25A-0006B	50 µg		Rb	ELISA, ICC, WB	Hu, Ms, Rt	✓
Polyglutamylation Modification, mAb (GT335)		AG-20B-0020	100 µg	GT335	Ms IgG1κ	ICC, IP, WB	All	✓
Progranulin (human), mAb (PG359-7)		AG-20A-0052	100 µg	PG359-7	Ms IgG1κ	ELISA, IHC (PS), IP, WB	Hu	✓
Progranulin (human), pAb		AG-25A-0112	100 µg		Gp	ELISA, WB	Hu	
Progranulin (mouse), mAb (PG319-1)		AG-20A-0077	50 µg 100 µg	PG319-1	Rt IgG2aκ	ELISA, WB	Ms	
Progranulin (mouse), pAb		AG-25A-0093	100 µg		Rt	ELISA, WB	Ms	
Pyrin (human), pAb (AL196)		AG-25B-0020	100 µg		Rb	IP, WB	Hu	✓
Rab1-GTP, mAb (rec.) (ROF7)		AG-27B-0006	100 µg	ROF7	Hu IgG2λ	ICC, IP	Hu, Ms, Rt, Dg	✓
Rab6-GTP, mAb (rec.) (AA2)		AG-27B-0004	100 µg	AA2	Hu IgG2λ	ICC, WB	Hu, Ms, Ds	✓
Rab6-GTP, mAb (rec.) (AA2)	ATTO 488	AG-27B-0004TD	100 µg	AA2	Hu IgG2λ	ICC	Hu, Ms, Ds	✓
RANK (ED) (human), pAb		AG-25A-0021	50 µg		Rb	FACS, WB	Hu	
RANKL (human), pAb		AG-25A-0016	100 µg		Rb	ELISA, FACS, WB	Hu	
RBP4 (human), pAb		AG-25A-0053	100 µg		Gp	ELISA, WB	Hu	
RBP4 (mouse), pAb		AG-25A-0036	100 µg		Rb	ELISA, WB	Ms	
RBP4 (mouse), pAb	Biotin	AG-25A-0036B	50 µg		Rb	ELISA, WB	Ms	
RBP4 (rat), pAb		AG-25A-0039	100 µg		Rb	ELISA, WB	Rt	

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RBP4 (rat), pAb	Biotin	AG-25A-0039B	50 µg		Rb	ELISA, WB	Rt	
RELM-α (mouse), mAb (MREL 127)		AG-20A-0060	50 µg	MREL 127	Rt IgG2aκ	ELISA, WB	Ms	
RELM-α (mouse), mAb (MREL 375)		AG-20A-0059	50 µg	MREL 375	Rt IgG2aκ	ELISA, WB	Ms	
RELM-α (mouse), mAb (MREL 384)		AG-20A-0020	50 µg 100 µg	MREL 384	Rt IgG2aκ	ELISA, WB	Ms	
RELM-α (mouse), pAb		AG-25A-0010	100 µg		Rb	ELISA, WB	Ms	
RELM-α (mouse), pAb	Biotin	AG-25A-0010B	50 µg		Rb	ELISA, WB	Ms	
RELM-α (rat), mAb (RREL 803)		AG-20A-0061	50 µg	RREL 803	Ms IgG2aκ	ELISA, WB	Rt	
RELM-α (rat), mAb (RREL 804)		AG-20A-0021	50 µg 100 µg	RREL 804	Ms IgG1κ	ELISA, WB	Rt	
RELM-α (rat), mAb (RREL 808)		AG-20A-0024	50 µg 100 µg	RREL 808	Ms IgG2aκ	ELISA, WB	Rt	
RELM-α (rat), pAb		AG-25A-0011	100 µg		Rb	ELISA, WB	Rt	
RELM-α (rat), pAb	Biotin	AG-25A-0011B	50 µg		Rb	ELISA, WB	Rt	
RELM-β (human), mAb (HRB 149)		AG-20A-0012	50 µg 100 µg	HRB 149	Ms IgG1κ	ELISA, WB	Hu	
RELM-β (human), mAb (HRB 46D)		AG-20A-0013	50 µg 100 µg	HRB 46D	Ms IgG2bκ	ELISA, WB	Hu	
RELM-β (human), pAb		AG-25A-0012	100 µg		Rb	ELISA, WB	Hu	
RELM-β (human), pAb	Biotin	AG-25A-0012B	50 µg		Rb	ELISA, WB	Hu	
RELM-β (mouse), mAb (MRB 46L)		AG-20A-0026	50 µg 100 µg	MRB 46L	Rt IgG2aκ	ELISA, WB	Ms	
RELM-β (mouse), pAb		AG-25A-0022	100 µg		Rt	ELISA, WB	Ms	
RELM-β (mouse), pAb		AG-25A-0063	100 µg		Rb	ELISA, WB	Ms	
H Repetin, pAb (AF646)		AG-25B-0017	50 µg		Rb	IHC (FS), WB	Hu, Ms	✓
H Resistin (human), pAb		AG-25A-0013	100 µg		Rb	ELISA, WB	Hu	✓
H Resistin (human), pAb	Biotin	AG-25A-0013B	50 µg		Rb	ELISA, WB	Hu	✓
Resistin (mouse), mAb (MRES 06)		AG-20A-0004	50 µg 100 µg	MRES 06	Rt IgG2aκ	ELISA, WB	Ms	
H Resistin (mouse), pAb		AG-25A-0014	100 µg		Rb	ELISA, WB	Ms	
H Resistin (mouse), pAb	Biotin	AG-25A-0014B	50 µg		Rb	ELISA, IP, WB	Ms	

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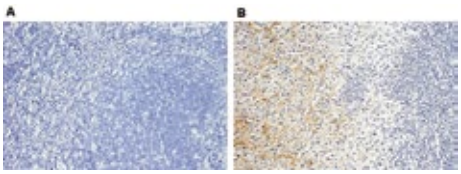
Highlights H

anti-Periostin [OSF-2], mAb (Stiny-1)

AG-20B-0033-C100 100 µg

CLONE: Stiny-1.
ISOTYPE: Mouse IgG1κ.
SOURCE/HOST: Purified from concentrated hybridoma tissue culture supernatant.
IMMUNOGEN: Full-length human periostin.
SPECIFICITY: Recognizes human and mouse periostin.
APPLICATION: ELISA, IHC (FS, PS), WB

FIGURE: Immunohistochemical staining of endogenous human Periostin in human breast cancer tissues (paraffin sections of A: normal breast and B: breast cancer tissue) by using Periostin, mAb (Stiny-1) (Prod. No. AG-20B-0033).



PRODUCT NAME	LABELS	PID	SIZE	CLONE	SOURCE/ ISOTYPE	APPLICATION	SPE-CIES	LIT. REF.
H Resistin (rat), mAb (RRES 03)		AG-20A-0014	50 µg 100 µg	RRES 03	Ms IgG2aκ	ELISA, WB	Rt	
H Resistin (rat), mAb (RRES 07)		AG-20A-0015	50 µg 100 µg	RRES 07	Ms IgG1κ	ELISA, WB	Rt	
H Resistin (rat), pAb		AG-25A-0015	100 µg		Rb	ELISA, WB	Rt	
H Resistin (rat), pAb	Biotin	AG-25A-0015B	50 µg		Rb	ELISA, WB	Rt	
Ribosomal Protein S3 (human), mAb (RP159-1)		AG-20A-0048	100 µg	RP159-1	Ms IgG1κ	ELISA, WB	Hu	
H Ribosomal Protein S3 (human), pAb		AG-25A-0077	100 µg		Rb	ELISA, ICC, IP, WB	Hu	✓
H RIG-I, mAb (Alme-1)		AG-20B-0009	100 µg	Alme-1	Ms IgG1	IHC (PS), IP, WB	Hu, Ms	✓
SENP2 (mouse), pAb		AG-25A-0078	100 µg		Rb	ELISA, WB	Ms	
H SHP (human), mAb (SH2G5-C)		AG-20A-0016	50 µg 100 µg	SH2G5-C	Rt IgG2aκ	ELISA, WB	Hu	✓
Sirtuin 1 (human), mAb (SR119-1AG)		AG-20A-0081	50 µg 100 µg	SR119-1AG	Ms IgG1κ	ELISA, WB	Hu	
Sirtuin 1 (human), mAb (SR128-6AG)		AG-20A-0082	50 µg 100 µg	SR128-6AG	Ms IgG1κ	ELISA, WB	Hu	
Sirtuin 1 (human), pAb		AG-25A-0082	100 µg		Rb	ELISA, WB	Hu	
Sirtuin 2 (human), mAb (S2R233-1)		AG-20A-0076	50 µg 100 µg	S2R233-1	Ms IgG2bκ	ELISA, WB	Hu	
Sirtuin 2 (human), pAb		AG-25A-0083	100 µg		Rb	ELISA, WB	Hu	
Sirtuin 5 (human), mAb (S5R37-3)		AG-20A-0084	50 µg 100 µg	S5R37-3	Ms IgG2bκ	ELISA, WB	Hu	
Sirtuin 5 (human), pAb		AG-25A-0100	100 µg		Rb	ELISA, WB	Hu	
Sirtuin 6 (human), mAb (S6R82-2)		AG-20A-0091	50 µg 100 µg	S6R82-2	Ms IgG2bκ	ELISA, WB	Hu	
Sirtuin 6 (human), pAb		AG-25A-0101	100 µg		Rb	ELISA, WB	Hu	
H SLP-2, pAb		AG-25B-0019	100 µg		Rb	ICC, IP, WB	Hu, Ms, Rt	✓
H SPRR2, pAb		AG-25B-0002	100 µl		Rb	ICC, IHC (PS), WB	Hu, Ms	✓
H SPRR3 (human), pAb (A4)		AG-25B-0003	100 µl		Rb	ICC, IHC (PS), WB	Hu	✓
H ST2 (human), mAb (ST33868)		AG-20A-0044	50 µg 100 µg	ST33868	Ms IgG1κ	ELISA, IHC (PS), WB	Hu	
ST2 (human), pAb		AG-25A-0058	100 µg		Rb	ELISA, WB	Hu	
Stearoyl-CoA Desaturase-1 (mouse), pAb		AG-25A-0031	100 µg		Rb	ELISA, WB	Ms	
H TACI (mouse), mAb (1A-10)		AG-20B-0035	100 µg	1A-10	Rt IgG2a	FACS	Ms	
H TACI (mouse), mAb (1A-10)	Biotin	AG-20B-0035B	100 µg	1A-10	Rt IgG2a	FACS	Ms	
TDO (human), pAb		AG-25A-0106	100 µg		Rb	ELISA, WB	Hu	
H Th-POK (human), pAb		AG-25A-0067	100 µg		Rb	ELISA, IHC (PS), WB	Hu	
Tim-3 (mouse), mAb (TI 142F)		AG-20A-0030	50 µg 100 µg	TI 142F	Rt IgG2aκ	ELISA, FACS	Ms	
Tim-3 (mouse), mAb (TI 339H)		AG-20A-0029	50 µg 100 µg	TI 339H	Rt IgG2aκ	ELISA, WB	Ms	
H TRAIL (human), mAb (HS501)		AG-20B-0026	100 µg	HS501	Ms IgG1	WB	Hu	✓
H TRAIL-R1 (human), mAb (HS101)		AG-20B-0022	100 µg	HS101	Ms IgG1	FACS, ICC, IP, FUNC (Blocking)	Hu	✓
H TRAIL-R1 (human), mAb (HS101)	PF	AG-20B-0022PF	100 µg	HS101	Ms IgG1	FACS, ICC, IP, FUNC (Blocking)	Hu	✓
H TRAIL-R1 (human), mAb (HS101)	FITC	AG-20B-0022F	100 µg	HS101	Ms IgG1	FACS, ICC	Hu	✓

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PRODUCT NAME	LABELS	PID	SIZE	CLONE	SOURCE/ ISOTYPE	APPLICATION	SPE-CIES	LIT. REF.
TRAIL-R1 (human), mAb (HS101)	ATTO 488	AG-20B-0022TD	100 Tests	HS101	Ms IgG1	FACS, ICC	Hu	✓
TRAIL-R1 (human), mAb (HS101)	ATTO 647N	AG-20B-0022TS	100 Tests	HS101	Ms IgG1	FACS, ICC	Hu	✓
TRAIL-R1 (human), mAb (TR1.02)		AG-20B-0027	100 µg	TR1.02	Ms IgG2b	FACS, IHC (PS), WB	Hu	✓
TRAIL-R1 to -R4 (human) Flow Cytometry Pack 100 µg each of: - anti-TRAIL-R1 (HS101) - anti-TRAIL-R2 (HS201) - anti-TRAIL-R3 (HS301) - anti-TRAIL-R4 (HS402)		AG-44B-0004				FACS	Hu	
TRAIL-R2 (human), mAb (HS201)		AG-20B-0023	100 µg	HS201	Ms IgG1	FACS, ICC, IP, FUNC (Blocking)	Hu	✓
TRAIL-R2 (human), mAb (HS201)	PF	AG-20B-0023PF	100 µg	HS201	Ms IgG1	FACS, ICC, IP, FUNC (Blocking)	Hu	✓
TRAIL-R2 (human), mAb (HS201)	FITC	AG-20B-0023F	100 µg	HS201	Ms IgG1	FACS, ICC	Hu	✓
TRAIL-R2 (human), mAb (HS201)	ATTO 488	AG-20B-0023TD	100 Tests	HS201	Ms IgG1	FACS, ICC	Hu	✓
TRAIL-R2 (human), mAb (HS201)	ATTO 647N	AG-20B-0023TS	100 Tests	HS201	Ms IgG1	FACS, ICC	Hu	✓
TRAIL-R2 (human), mAb (TR2.21)		AG-20B-0028	100 µg	TR2.21	Ms IgG1	FACS, IHC (PS), WB	Hu	✓
TRAIL-R3 (human), mAb (HS301)		AG-20B-0024	100 µg	HS301	Ms IgG1	FACS, ICC	Hu	✓
TRAIL-R3 (human), mAb (TR3.06)		AG-20B-0029	100 µg	TR3.06	Ms IgG1	FACS, IHC (PS), WB	Hu	✓
TRAIL-R4 (human), mAb (HS402)		AG-20B-0025	100 µg	HS402	Ms IgG1	FACS, ICC, IHC (FS), IP	Hu	✓
TRAM (human), pAb (AL239)		AG-25B-0011	50 µl		Rb	WB	Hu	✓
TRB-3 (human), pAb		AG-25A-0059	100 µg		Rb	ELISA, IHC (PS), WB	Hu	
TRIF (human), pAb (AL227)		AG-25B-0008	50 µg		Rb	IP, WB	Hu	✓

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Highlights

TRAIL for IHC

anti-TRAIL-R1 (human), mAb (TR1.02)

AG-20B-0027-C100 100 µg

CLONE: TR1.02. **ISOTYPE:** Mouse IgG2b. **IMMUNOGEN:** Recombinant human TRAIL-R1 (DR4). **SPECIFICITY:** Recognizes human TRAIL-R1. Does not cross-react with human TRAIL-R2, -R3 or -R4. **APPLICATION:** FACS, IHC (PS), WB.

anti-TRAIL-R2 (human), mAb (TR2.21)

AG-20B-0028-C100 100 µg

CLONE: TR2.21. **ISOTYPE:** Mouse IgG1. **IMMUNOGEN:** Recombinant human TRAIL-R2 (DR5). **SPECIFICITY:** Recognizes human TRAIL-R2. Does not cross-react with human TRAIL-R1, -R3 or -R4. **APPLICATION:** FACS, IHC (PS), WB.

anti-TRAIL-R3 (human), mAb (TR3.06)

AG-20B-0029-C100 100 µg

CLONE: TR3.06. **ISOTYPE:** Mouse IgG1. **IMMUNOGEN:** Recombinant human TRAIL-R3 (DcR1). **SPECIFICITY:** Recognizes human TRAIL-R3. Does not cross-react with human TRAIL-R1, -R2 or -R4. **APPLICATION:** FACS, ICC, IHC (PS), WB.

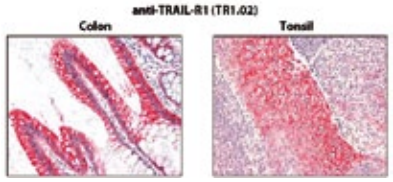


FIGURE: Immunohistochemistry detection of endogenous TRAIL-R1 in paraffin-embedded human carcinoma tissues (colon, tonsil) using mAb to TRAIL-R1 (TR1.02) (Prod. No. AG-20B-0027).

LIT (covering all clones):
Prognostic significance of tumour necrosis factor-related apoptosis-inducing ligand (TRAIL) receptor expression in patients with breast cancer: T. M. Ganten, et al.; J. Mol. Med. **87**, 995 (2009)

PRODUCT NAME	LABELS	PID	SIZE	CLONE	SOURCE/ ISOTYPE	APPLICATION	SPE-CIES	LIT. REF.
H Tubulin-GTP, mAb (rec.) (MB11)		AG-27B-0009	100 µg	MB11	Hu IgG2λ	ICC	Hu, Ms, Rt, Ds	✓
H α-Tubulin, mAb (rec.) (F2C)		AG-27B-0005	100 µg	F2C	Hu IgG2λ	ICC, WB	Ms, Hu, Bv	✓
H α-Tubulin, mAb (rec.) (F2C)	ATTO 488	AG-27B-0005TD	100 µg	F2C	Hu IgG2λ	ICC	Ms, Hu, Bv	✓
H β-Tubulin, mAb (rec.) (S11B)		AG-27B-0008	100 µg	S11B	Hu IgG2λ	ELISA, ICC, WB	Hu, Ms, Rt, Pg, Ds, Mk	✓
H Vaspin (human), mAb (VP63)		AG-20A-0045	50 µg 100 µg	VP63	Ms IgG1κ	ELISA, WB	Hu	
H Vaspin (human), pAb		AG-25A-0048	100 µg		Rb	ELISA, WB	Hu	
H Vaspin (mouse), pAb		AG-25A-0075	100 µg		Rb	ELISA, WB	Ms	
Visfatin *see Nampt*								
H ZBP1, mAb (Zippy-1)		AG-20B-0010	100 µg	Zippy-1	Ms IgG2a	IP, WB	Hu, Ms	

GENERAL: **CCD:** Coiled-coil Domain; **ED:** Ectodomain; **FLD:** Fibrinogen-like Domain; **GD:** Globular Domain; **PF:** Preservative Free **APPLICATIONS:** **EM:** Electron Microscopy; **FACS:** Flow Cytometry; **FUNC:** Functional Application; **ICC:** Immunocytochemistry; **IHC:** Immunohistochemistry (FS = Frozen Sections, PS = Paraffin Sections); **IP:** Immunoprecipitation; **WB:** Western blot
SPECIES: **Hu** = Human; **Ms** = Mouse; **Rt** = Rat; **Dg** = Dog; **Ds** = Drosophila; **Gp** = Guinea Pig; **HCV** = Hepatitis C virus; **List.** = Listeria; **Mk** = Monkey; **Pg** = Pig; **Rb** = Rabbit

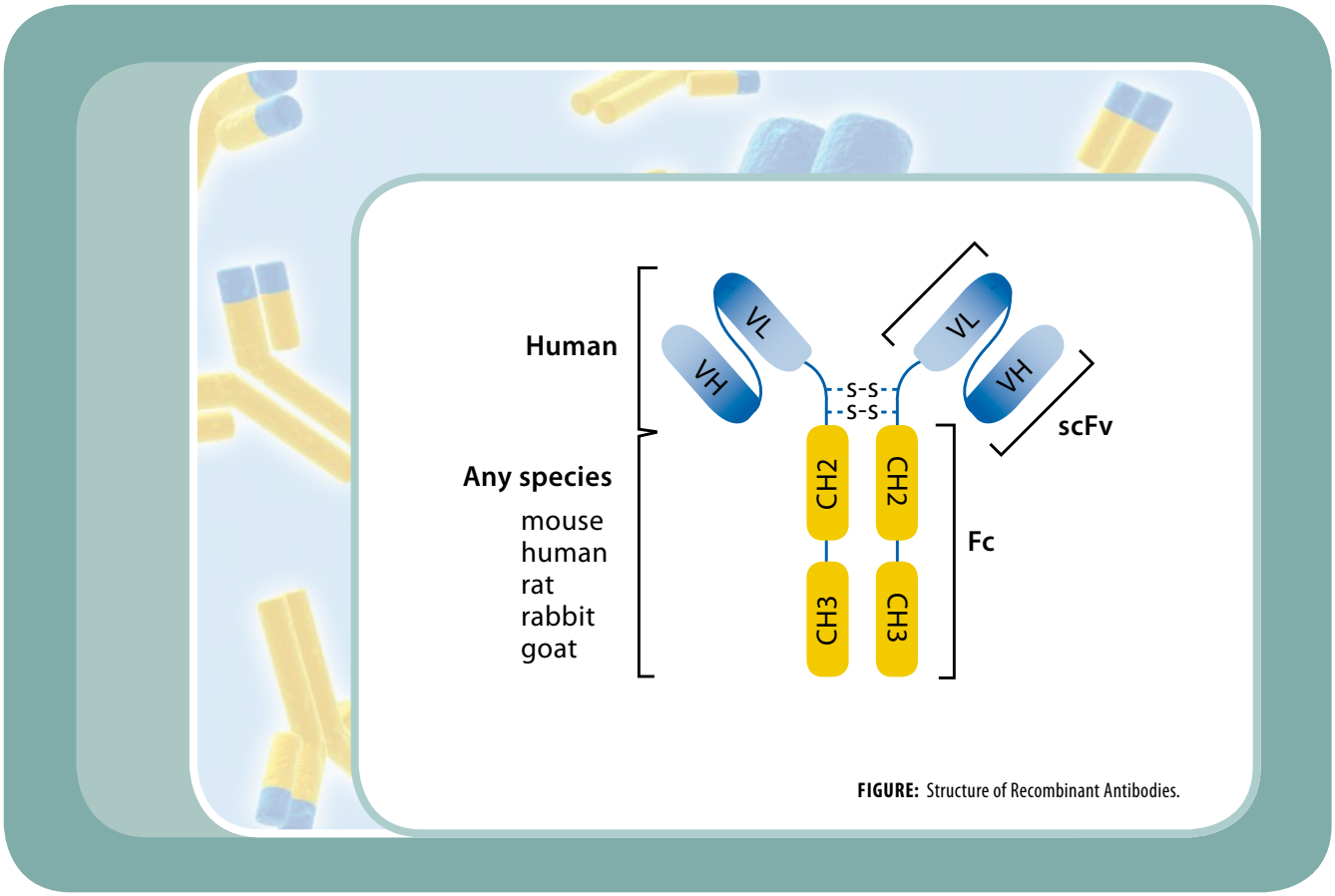


FIGURE: Structure of Recombinant Antibodies.

Recombinant Monoclonal Antibodies

Antibodies developed from a NON-ANIMAL SOURCE using *in vitro* antibody phage display technology

Features:

- Developed from a human antibody phage display library.
- Consists of scFv (single chain fragment variable) composed of VH (variable domain of the human immunoglobulin heavy chain) and VL (variable domain of the human immunoglobulin light chain) fused to a Fc region.
- Produced in mammalian cells (CHO or HEK 293).
- Similar properties compared to monoclonal antibodies developed in mice / rat (e.g. affinity in the low nanomolar range).
- Standard secondary antibodies can be used.
- Ideal for conserved antigens (which are poorly immunogenic in animals).
- Detect conformational epitopes (e.g. GTP-bound proteins).
- Detect protein modifications (e.g. phosphorylations, ubiquitinations).
- Possibility to exchange the Fc region with Fc from other species.

New Recombinant Antibodies

anti-APRIL (mouse), mAb (rec.) (blocking) (Apry-1-1)

AG-27B-0001-C100		100 µg
AG-27B-0001PF-C100	Preservative Free	100 µg
AG-27B-0001B-C100	Biotin	100 µg

Clone:	Apry-1-1
Isotype:	Mouse IgG2bλ
Immunogen:	Mouse APRIL (aa 98-232)
Specificity:	Recognizes mouse APRIL
Application:	ELISA, IP, FUNC (Inhibits binding of mouse APRIL to mouse BCMA and TACI)

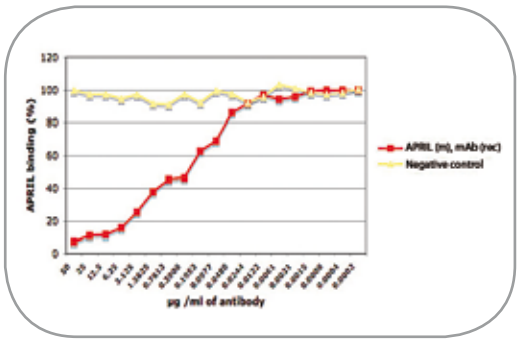


FIGURE: Binding of mouse APRIL to mouse BCMA is inhibited by anti-APRIL (mouse), mAb (rec.) (blocking) (Apry-1-1) (Prod. No. AG-27B-0001).

anti-EGFP, mAb (rec.) (G3)

AG-27B-0007-C100	100 µg

Clone:	G3
Isotype:	Human IgG2bλ
Immunogen:	Enhanced green fluorescent proteins (EGFP)
Specificity:	Recognizes EGFP, enhanced cyan fluorescent protein (ECFP) and enhanced yellow fluorescent protein (EYFP)
Application:	ELISA, ICC, IP, WB

LIT: S. Moutel, et al.; Biotech. J. **4**, 38 (2009)

anti-Giantin, mAb (rec.) (TA10)

AG-27B-0003-C100		100 µg
AG-27B-0003TD-C100	ATTO 488	100 µg

Clone:	TA10
Isotype:	Human IgG2bλ
Immunogen:	Human recombinant giantin
Specificity:	Recognizes human and mouse giantin
Application:	ICC

LIT: C. Nizak, et al.; Traffic **7**, 739 (2003) • O. Vielemeyer, et al; BMC Biotechnol. **10**, 59 (2010)

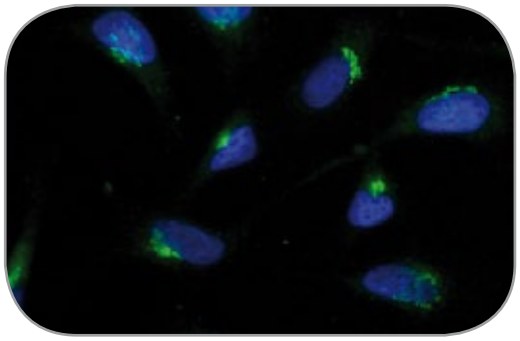


FIGURE: Human giantin is detected by immunocytochemistry using anti-giantin, mAb (rec.) (TA10) (ATTO 488) (Prod. No AG-27B-0003TD). *Picture courtesy of Dr. Sandrine Moutel & Dr. Franck Perez Lab, Curie Institute, Paris.*

anti-HMGB1, mAb (rec.) (Giby-1-4)

AG-27B-0002-C100 — 100 µg

Clone:	Giby-1-4
Isotype:	Human IgG2bλ
Immunogen:	Human recombinant HMGB1
Specificity:	Recognizes human, mouse and rat HMGB1
Application:	ELISA, WB

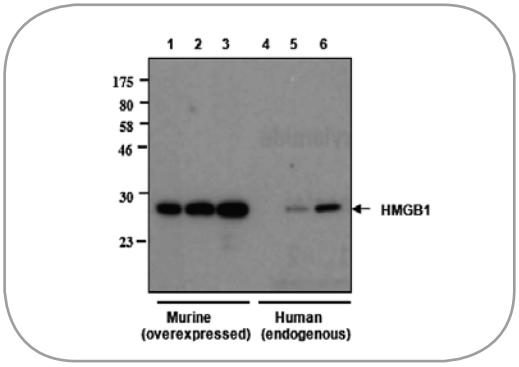


FIGURE: Western blot analysis of human and rat HMGB1 using anti-HMGB1, mAb (rec.) (Giby-1-4) (Prod. No. AG-27B-0002). Different amounts of cell extracts from HEK293T cells (3µg, 5µg and 30µg) either transfected with a plasmid coding for rat HMGB1 (lanes 1, 2, 3) or non-transfected (lanes 4, 5, 6), were separated by SDS-PAGE under reducing conditions, transferred to nitrocellulose and incubated with anti-HMGB1, mAb (rec.) (Giby-1-4) (1µg/ml). Proteins were visualized by a chemiluminescence detection system.

anti-Myosin IIA (non-muscle) (heavy chain), mAb (rec.) (SF9)

AG-27B-0010-C100 — 100 µg

Clone:	SF9
Isotype:	Human IgG2bλ
Immunogen:	Full length myosin IIA from rat liver
Specificity:	Recognizes human, mouse, rat and drosophila myosin IIA (heavy chain)
Application:	ELISA, ICC, WB, EM

LIT: C. Nizak, et al.; Traffic **7,** 739 (2003)

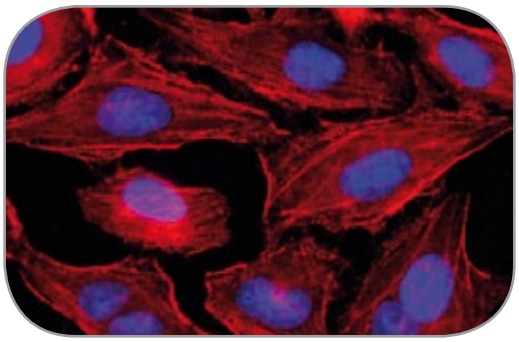


FIGURE: Human myosin IIA (non-muscle) (heavy chain) is detected by immunocytochemistry using anti-myosin IIA (non-muscle) (heavy chain), mAb (rec.) (SF9) (Prod. No. AG-27B-0010). *Picture courtesy of Dr. Sandrine Moutel & Dr. Franck Perez Lab, Curie Institute, Paris.*

anti-Rab1-GTP, mAb (rec.) (ROF7)

AG-27B-0006-C100 — 100 µg

Clone:	ROF7
Isotype:	Human IgG2bλ
Immunogen:	Full length canine Rab1
Specificity:	Recognizes human, mouse, rat and canine Rab1a-GTP and Rab1b-GTP
Application:	ICC, IP

LIT: O. Vielemeyer, et al; BMC Biotechnol. **10,** 59 (2010)

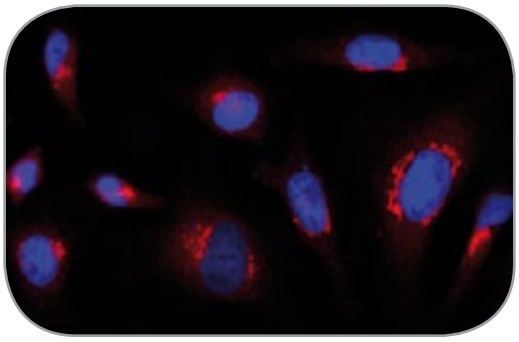
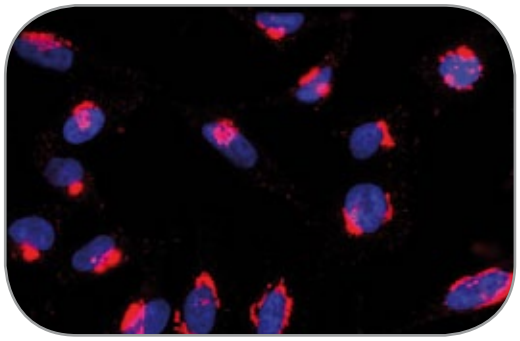


FIGURE: Rab1-GTP is detected by immunocytochemistry using anti-Rab1-GTP, mAb (ROF7) (Prod. No. AG-27B-0006). *Picture courtesy of Dr. Sandrine Moutel & Dr. Franck Perez Lab, Curie Institute, Paris.*

anti-Rab6-GTP, mAb (rec.) (AA2)

AG-27B-0004-C100		100 µg
AG-27B-0004TD-C100	ATTO 488	100 µg

Clone:	AA2
Isotype:	Human IgG2bλ
Immunogen:	Recombinant Rab6AQ72L, a GTP-locked mutant of Rab6A in which Gln72 is replaced by Leu
Specificity:	Recognizes human, mouse and drosophila GTP-bound Rab6a and Rab6b and mutant Rab6Q72L Does not detect Rab6-GDP
Application:	ICC, WB (only AG-27B-0004)



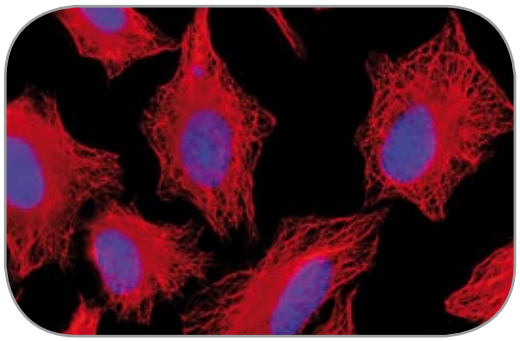
LIT: C. Nizak, et al.; Science **300,** 984 (2003) • E. Del Nery, et al.; Traffic **7,** 394 (2006) • O. Vielemeyer, et al; BMC Biotechnol. **10,** 59 (2010)

FIGURE: Rab6-GTP is detected by immunocytochemistry using anti-Rab6-GTP, mAb (AA2) (Prod. No. AG-27B-0004). *Picture courtesy of Dr. Sandrine Moutel & Dr. Franck Perez Lab, Curie Institute, Paris.*

anti-α-Tubulin, mAb (rec.) (F2C)

AG-27B-0005-C100		100 µg
AG-27B-0005TD-C100	ATTO 488	100 µg

Clone:	F2C
Isotype:	Human IgG2bλ
Immunogen:	Bovine brain tubulin
Specificity:	Recognizes human, mouse and bovine α-tubulin
Application:	ICC, WB (only AG-27B-0005)



LIT: C. Nizak, et al.; Traffic **7,** 739 (2003) • O. Vielemeyer, et al; BMC Biotechnol. **10,** 59 (2010)

FIGURE: Human α-tubulin is detected by immunocytochemistry using anti-α-tubulin, mAb (rec.) (F2C) (Prod. No. AG-27B-0005). *Picture courtesy of Dr. Sandrine Moutel & Dr. Franck Perez Lab, Curie Institute, Paris.*

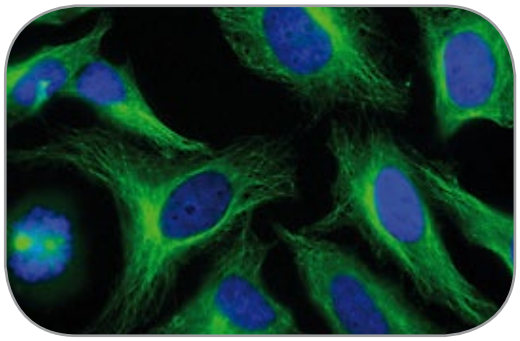


FIGURE: Human α-tubulin is detected by immunocytochemistry using anti-α-tubulin, mAb (rec.) (F2C) (ATTO 488) (Prod. No. AG-27B-0005TD). *Picture courtesy of Dr. Sandrine Moutel & Dr. Franck Perez Lab, Curie Institute, Paris.*

anti-β-Tubulin, mAb (rec.) (S11B)

AG-27B-0008-C100 — 100 µg

Clone:	S11B
Isotype:	Human IgG2bλ
Immunogen:	Full length tubulin from pig brain
Specificity:	Recognizes human, mouse, rat, pig, drosophila and monkey β-tubulin
Application:	ELISA, ICC, WB

LIT: C. Nizak, et al.; Traffic **7,** 739 (2003)

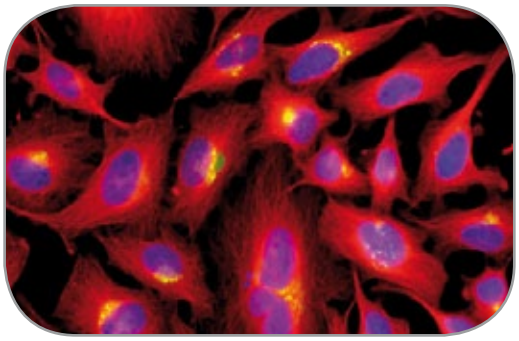


FIGURE: Human β-tubulin is detected by immunocytochemistry using anti-β-tubulin, mAb (rec.) (S11B)) (Prod. No. AG-27B-0008). *Picture courtesy of Dr. Sandrine Moutel & Dr. Franck Perez Lab, Curie Institute, Paris.*

anti-Tubulin-GTP, mAb (rec.) (MB11)

AG-27B-0009-C100 — 100 µg

Clone:	MB11
Isotype:	Human IgG2bλ
Immunogen:	Full length GTP-λ-S loaded tubulin from pig brain
Specificity:	Recognizes human, mouse and drosophila tubulin-GTP
Application:	ICC

LIT: A. Dimitrov, et al.; Science **322,** 1353 (2008)

Control Reagents

For Antibodies

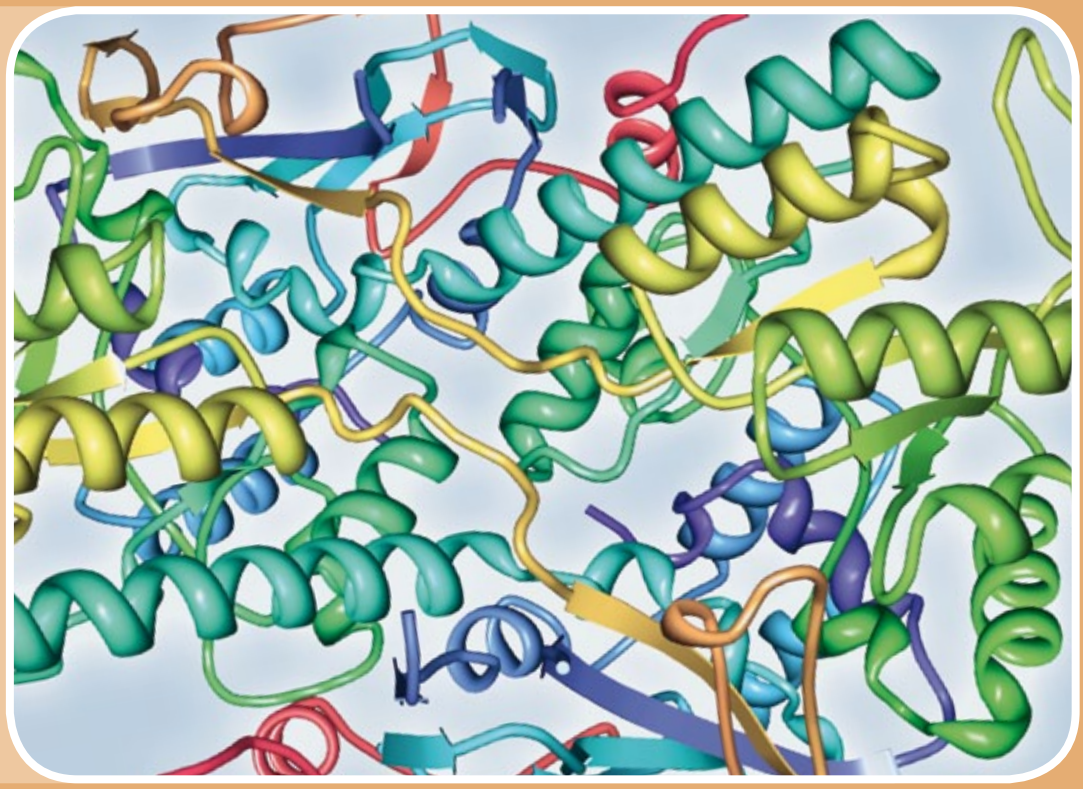
PRODUCT NAME	LABELS	PID	SIZE	CLONE	SOURCE/ ISOTYPE	APPLICATION	SPE-CIES	LIT. REF.
Rat IgG2a Isotype Control		AG-35B-0002	50 µg	KLH/G2a-11	Rt IgG2aκ	FACS, ICC, IHC, IP	All	
Rat IgG2a Isotype Control	ATTO 488	AG-35B-0002TD	50 µg	KLH/G2a-11	Rt IgG2aκ	FACS, ICC, IHC, IP	All	
Mouse IgG1 Isotype Control		AG-35B-0003	50 µg	15H6	Ms IgG1	FACS, ICC, IHC, IP	All	
Mouse IgG1 Isotype Control	ATTO 488	AG-35B-0003TD	50 µg	15H6	Ms IgG1	FACS, ICC, IHC, IP	All	
Mouse IgG2a Isotype Control		AG-35B-0004	50 µg	HOPC-1	Ms IgG2aλ	FACS, ICC, IHC, IP	All	
Mouse IgG2a Isotype Control	ATTO 488	AG-35B-0004TD	50 µg	HOPC-1	Ms IgG2aλ	FACS, ICC, IHC, IP	All	
Mouse IgG2b Isotype Control		AG-35B-0005	50 µg	A-1	Ms IgG2bκ	FACS, ICC, IHC, IP	All	
Mouse IgG2b Isotype Control	ATTO 488	AG-35B-0005TD	50 µg	A-1	Ms IgG2bκ	FACS, ICC, IHC, IP	All	

GENERAL: CCD: Coiled-coil Domain; **ED:** Ectodomain; **FLD:** Fibrinogen-like Domain; **GD:** Globular Domain; **PF:** Preservative Free **APPLICATIONS: EM:** Electron Microscopy; **FACS:** Flow Cytometry; **FUNC:** Functional Application; **ICC:** Immunocytochemistry; **IHC:** Immunohistochemistry (FS = Frozen Sections, PS = Paraffin Sections); **IP:** Immunoprecipitation; **WB:** Western blot
SPECIES: Hu = Human; **Ms** = Mouse; **Rt** = Rat; **Dg** = Dog; **Ds** = Drosophila; **Gp** = Guinea Pig; **HCV** = Hepatitis C virus; **List.** = Listeria; **Mk**=Monkey; **Pg** = Pig; **Rb** = Rabbit

For Proteins

PRODUCT NAME	PID	SIZE	TAG	MW BY SDS-PAGE	SOURCE	SPE-CIES	LIT REF.
Fc (human) Control (rec.)	AG-35B-0007	2 x 50 µg		~28kDa	CHO cells	Hu	
Fc (mouse) IgG2b Control	AG-35B-0008	2 x 50 µg		~30kDa	HEK 293 cells	Ms	
Fc (human) IgG2 Control	AG-35B-0009	2 x 50 µg		~30kDa	HEK 293 cells	Hu	
TNF Ligands Enhancer	AG-35B-0001	50 µg				All	

GENERAL: CCD: Coiled-coil Domain; **ED:** Ectodomain; **FLD:** Fibrinogen-like Domain; **GD:** Globular Domain; **HDLHTH:** Homeodomain-like Helix-Turn-Helix
SPECIES: Hu = Human; **Ms** = Mouse; **Rt** = Rat; **Dg** = Dog



Proteins

- Low endotoxin levels
- Produced in *E. coli*, HEK & CHO cells
- Bulk quantities available
- MultiPacks available

AdipoGen – The Original Manufacturer of Key Proteins

Proteins

PRODUCT NAME	PID	SIZE	TAG	MW BY SDS-PAGE	SOURCE	SPE-CIES	LIT REF.
ACE2 (human) (rec.)	AG-40A-0048	10 µg 50 µg	FLAG	~90kDa	HEK 293 cells	Hu	
ACE2 (human):Fc (human) (rec.)	AG-40A-0026	50 µg	Fc	~120kDa	HEK 293 cells	Hu	✓
ACE2 (mouse) (rec.)	AG-40A-0184	10 µg 50 µg	FLAG	~90kDa	HEK 293 cells	Ms	
Adiponectin (dog) (rec.)	AG-40A-0131	10 µg 50 µg	FLAG	~30kDa	HEK 293 cells	Dg	
Adiponectin (GD) (dog) (rec.)	AG-40A-0141	10 µg 50 µg	FLAG	~17kDa	HEK 293 cells	Dg	
Adiponectin (human) (rec.)	AG-40A-0001	50 µg	His	~30kDa	*E. coli*	Hu	
Adiponectin (human) (rec.)	AG-40B-0030	50 µg	FLAG	~33kDa	HEK 293 cells	Hu	
Adiponectin (human) (rec.) (BULK)	AG-40B-0030AA	500 µg	FLAG	~33kDa	HEK 293 cells	Hu	
Adiponectin (GD) (human) (rec.)	AG-40A-0005	50 µg	His	~17kDa	*E. coli*	Hu	
Adiponectin (GD) (human) (rec.)	AG-40A-0006	50 µg	FLAG	~17kDa	HEK 293 cells	Hu	
Adiponectin (trimeric form) (human) (rec.)	AG-40A-0143	10 µg 50 µg	FLAG	~35kDa	HEK 293 cells	Hu	
Adiponectin (mouse) (rec.)	AG-40A-0003	50 µg	His	~30kDa	*E. coli*	Ms	
Adiponectin (mouse) (rec.)	AG-40A-0002	50 µg	FLAG	~30kDa	HEK 293 cells	Ms	
Adiponectin (mouse) (rec.) (BULK)	AG-40B-0026AA	500 µg	FLAG	~35kDa	HEK 293 cells	Ms	
Adiponectin (GD) (mouse) (rec.)	AG-40A-0007	50 µg	His	~17kDa	*E. coli*	Ms	
Adiponectin (rat) (rec.)	AG-40A-0004	50 µg	FLAG	~30kDa	HEK 293 cells	Rt	
Adiponectin (rat) (rec.)	AG-40A-0021	50 µg	His	~30kDa	*E. coli*	Rt	
Adiponectin (GD) (rat) (rec.)	AG-40A-0022	50 µg	His	~17kDa	*E. coli*	Rt	✓
Angiocidin (human) (rec.)	AG-40B-0061	10 µg	No Tag	~50kDa	*E. coli*	Hu	
Angiopoietin-1 (human) (rec.)	AG-40A-0014	10 µg 50 µg	FLAG	~57kDa	*E. coli*	Hu	
Angiopoietin-2 (human) (rec.)	AG-40A-0016	10 µg 50 µg	FLAG	~65kDa	*E. coli*	Hu	
ANGPTL1 (FLD) (human) (rec.)	AG-40A-0078	10 µg 50 µg	FLAG	~35kDa	HEK 293 cells	Hu	
ANGPTL2 (CCD) (human) (rec.)	AG-40A-0087	10 µg 50 µg	FLAG	~32kDa	HEK 293 cells	Hu	
ANGPTL2 (FLD) (human) (rec.)	AG-40A-0083	10 µg 50 µg	FLAG	~35kDa	HEK 293 cells	Hu	
ANGPTL3 (CCD) (human) (rec.)	AG-40A-0069	10 µg 50 µg	FLAG	~25kDa	HEK 293 cells	Hu	
ANGPTL3 (CCD) (mouse) (rec.)	AG-40A-0103	10 µg 50 µg	His	~20kDa	HEK 293 cells	Ms	
ANGPTL3 (FLD) (human) (rec.)	AG-40A-0071	10 µg 50 µg	FLAG	~35kDa	HEK 293 cells	Hu	
ANGPTL3 (FLD) (mouse) (rec.)	AG-40A-0096	10 µg 50 µg	FLAG	~30kDa	HEK 293 cells	Ms	
ANGPTL3 (human) (rec.)	AG-40A-0051	10 µg 50 µg	FLAG	~60kDa	HEK 293 cells	Hu	✓
ANGPTL3 (mouse) (rec.)	AG-40A-0082	10 µg 50 µg	FLAG	~70kDa	HEK 293 cells	Ms	
ANGPTL4 (CCD) (human) (rec.)	AG-40A-0065	10 µg 50 µg	FLAG	~18kDa	HEK 293 cells	Hu	
ANGPTL4 (CCD) (mouse) (rec.)	AG-40A-0104	10 µg 50 µg	His	~18kDa	HEK 293 cells	Ms	

GENERAL: **CCD:** Coiled-coil Domain; **ED:** Ectodomain; **FLD:** Fibrinogen-like Domain; **GD:** Globular Domain; **HDLHTH:** Homeodomain-like Helix-Turn-Helix
SPECIES: **Hu** = Human; **Ms** = Mouse; **Rt** = Rat; **Dg** = Dog

PRODUCT NAME	PID	SIZE	TAG	MW BY SDS-PAGE	SOURCE	SPE-CIES	LIT REF.
ANGPTL4 (FLD) (human) (rec.)	AG-40A-0070	10 µg 50 µg	FLAG	~35kDa	HEK 293 cells	Hu	
ANGPTL4 (FLD) (mouse) (rec.)	AG-40A-0115	10 µg 50 µg	FLAG	~40kDa	HEK 293 cells	Ms	
ANGPTL4 (FLD) (rat) (rec.)	AG-40A-0175	10 µg 50 µg	FLAG	~30kDa	HEK 293 cells	Rt	
ANGPTL4 (human) (rec.)	AG-40A-0033	10 µg 50 µg	FLAG	~40kDa	HEK 293 cells	Hu	
ANGPTL4 (intact form) (rat) (rec.)	AG-40A-0123	10 µg	His	~75kDa	*E. coli*	Rt	
ANGPTL4 (mouse) (rec.)	AG-40A-0075	10 µg 50 µg	FLAG	~50kDa	COS-7 cells	Ms	
ANGPTL5 (CCD) (human) (rec.)	AG-40A-0076	10 µg 50 µg	FLAG	~20kDa	HEK 293 cells	Hu	
ANGPTL5 (FLD) (human) (rec.)	AG-40A-0084	10 µg 50 µg	FLAG	~32kDa	HEK 293 cells	Hu	
ANGPTL6 (FLD) (human) (rec.)	AG-40A-0085	10 µg 50 µg	FLAG	~32kDa	HEK 293 cells	Hu	
ANGPTL6 (human) (rec.)	AG-40A-0032	10 µg 50 µg	FLAG	~65kDa	HEK 293 cells	Hu	
ANGPTL7 (FLD) (human) (rec.)	AG-40A-0086	10 µg 50 µg	FLAG	~32kDa	HEK 293 cells	Hu	
ANGPTL7 (human) (rec.)	AG-40A-0060	10 µg 50 µg	FLAG	~45kDa	HEK 293 cells	Hu	
Annexin V (human) (rec.)	AG-40B-0005	100 µg	GST	~52kDa	*E. coli*	Hu	
Annexin V (human) (rec.) (ATTO 488)	AG-40B-0005TD	100 tests	GST	~52kDa	*E. coli*	Hu	
Annexin V (human) (rec.) (ATTO 647N)	AG-40B-0005TS	100 tests	GST	~52kDa	*E. coli*	Hu	
*Mega*APRIL™, Soluble (human) (rec.)	AG-40B-0017 MultiPack	3 x 10 µg	FLAG	~34kDa	HEK 293 cells	Hu, Ms	✓
*Mega*APRIL™, Soluble (mouse) (H98) (rec.)	AG-40B-0035 MultiPack	3 x 10 µg	FLAG		HEK 293 cells	Hu, Ms	
BAFF (aa134-285), Soluble (human) (rec.)	AG-40B-0016 MultiPack	10 µg 3 x 10 µg	FLAG	~23kDa	*E. coli*	Hu, Ms	
BAFF-R (human):Fc (human) (rec.)	AG-40B-0027 MultiPack	50 µg 3 x 50 µg	Fc	~40kDa	HEK 293 cells	Hu, Ms	

GENERAL: **CCD:** Coiled-coil Domain; **ED:** Ectodomain; **FLD:** Fibrinogen-like Domain; **GD:** Globular Domain; **HDLHTH:** Homeodomain-like Helix-Turn-Helix
SPECIES: **Hu** = Human; **Ms** = Mouse; **Rt** = Rat; **Dg** = Dog

Highlights

ANGPTL3 (human) (rec.)

AG-40A-0051-C010 10 µg
AG-40A-0051-C050 50 µg

SOURCE/HOST: HEK 293 cells.

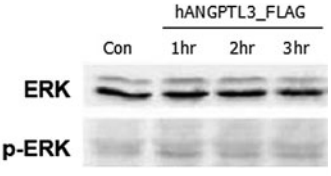
SEQUENCE: Human ANGPTL3 (aa 1-460) is fused at the C-terminus to a FLAG®-tag.

MW: ~60kDa (SDS-PAGE).

PURITY: ≥90% (SDS-PAGE).

LIT: Angiopoietin-like protein 3 modulates barrier properties of human glomerular endothelial cells through a possible signaling pathway involving phosphatidylinositol-3 kinase/protein kinase B and integrin alphaVbeta3.: Y. Li, et al.; Acta Biochim. Biophys. Sin. (Shanghai) **40,** 459 (2008)

FIGURE: ERK phosphorylation induced by hANGPTL3 in THP-1 cells. THP-1 monocyte cells were serum starved for 16hr and then stimulated with ANGPTL3 (human) (rec.) (Prod. No. AG-40A-0051) (500ng/ml) for 1, 2 and 3 hrs, respectively. Antibodies against pERK1/2 & total ERK1/2 were used for immunoblotting.



PRODUCT NAME	PID	SIZE	TAG	MW BY SDS-PAGE	SOURCE	SPE-CIES	LIT REF.
BCMA (human):Fc (human) (rec.)	AG-40B-0080 MultiPack	50 µg 3 x 50 µg	Fc	~40kDa	HEK 293 cells	Hu, Ms	✓
BCMA (mouse):Fc (human) (rec.)	AG-40B-0076 MultiPack	50 µg 3 x 50 µg	Fc	~35kDa	HEK 293 cells	Hu, Ms	
Calreticulin (human) (rec.)	AG-40A-0132	10 µg 50 µg	His	~55kDa	*E. coli*	Hu	
Cbln1 (human) (rec.)	AG-40A-0161	10 µg 50 µg	FLAG	~30kDa	HEK 293 cells	Hu	
Cbln2 (ED) (human) (rec.)	AG-40A-0167	10 µg 50 µg	FLAG	~30kDa	HEK 293 cells	Hu	
Cbln3 (human) (rec.)	AG-40A-0171	10 µg 50 µg	FLAG	~22kDa	HEK 293 cells	Hu	
Cbln4 (human) (rec.)	AG-40A-0173	10 µg 50 µg	FLAG	~26kDa	HEK 293 cells	Hu	
CD24 (mouse):Fc (human) (rec.)	AG-40B-0065	50 µg	Fc	~50kDa	HEK 293 cells	Ms	
CD40 (human):Fc (human) (rec.)	AG-40B-0083 MultiPack	50 µg 3 x 50 µg	Fc	~54kDa	HEK 293 cells	Hu, Ms	
CD40L, Soluble (human) (rec.)	AG-40B-0084 MultiPack	10 µg 5 x 10 µg	FLAG	~18kDa	HEK 293 cells	Hu	
*Mega*CD40L™, Soluble (human) (rec.)	AG-40B-0010	10 µg	FLAG	~35-40kDa	CHO cells	Hu, Ms	
*Mega*CD40L™, Soluble (mouse) (rec.)	AG-40B-0020	10 µg	FLAG	~35-40kDa	CHO cells	Hu, Ms	✓
CD137 (human):Fc (human) (rec.)	AG-40B-0060 MultiPack	50 µg 3 x 50 µg	Fc	~50kDa	HEK 293 cells	Hu	
CD137 (mouse):Fc (human) (rec.)	AG-40A-0025	50 µg	Fc	~50kDa	HEK 293 cells	Ms	
CD137L, Soluble (mouse) (rec.)	AG-40A-0067	10 µg 50 µg	His	~25kDa	*E. coli*	Ms	
CD137L, Soluble (mouse) (rec.)	AG-40A-0020	50 µg	FLAG	~40kDa	HEK 293 cells	Ms	
Clusterin (nuclear form) (human) (rec.)	AG-40A-0047	50 µg	His	~45kDa	*E. coli*	Hu	
Clusterin (nuclear form) (mouse) (rec.)	AG-40A-0057	50 µg	His	~45kDa	*E. coli*	Ms	
Clusterin (secretory form) (human) (rec.)	AG-40A-0050	10 µg 50 µg	FLAG	~80kDa	HEK 293 cells	Hu	
COMP (rat):Angiopoietin-1 (human) (rec.)	AG-40A-0015 **BULK**	10 µg 50 µg 500 µg	FLAG	~25kDa	*E. coli*	Hu	
Contactin-1 (human):Fc (human) (rec.)	AG-40A-0168	10 µg 50 µg	Fc	~120kDa	HEK 293 cells	Hu	
Contactin-6 (human):Fc (human) (rec.)	AG-40A-0156	10 µg 50 µg	Fc	~150kDa	HEK 293 cells	Hu	
CTRP1 (GD) (human) (rec.)	AG-40A-0172	10 µg 50 µg	FLAG	~16kDa	HEK 293 cells	Hu	
CTRP2 (GD) (human) (rec.)	AG-40A-0044	10 µg 50 µg	FLAG	~18kDa	HEK 293 cells	Hu	
CTRP2 (GD) (mouse) (rec.)	AG-40A-0061	10 µg 50 µg	FLAG	~25kDa	HEK 293 cells	Ms	
CTRP3 (GD) (human) (rec.)	AG-40A-0164	10 µg 50 µg	His	~28kDa	*E. coli*	Hu	
CTRP3 (human) (rec.)	AG-40A-0163	10 µg 50 µg	FLAG	~35kDa	HEK 293 cells	Hu	
CTRP5 (GD) (human) (rec.)	AG-40A-0134	10 µg 50 µg	His	~16kDa	*E. coli*	Hu	
CTRP5 (human) (rec.)	AG-40A-0142	10 µg 50 µg	His	~26kDa	*E. coli*	Hu	

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PRODUCT NAME	PID	SIZE	TAG	MW BY SDS-PAGE	SOURCE	SPE-CIES	LIT REF.
CTRP6 (GD) (human) (rec.)	AG-40A-0138	10 µg 50 µg	His	~16kDa	*E. coli*	Hu	
CTRP6 (human) (rec.)	AG-40A-0166	10 µg	FLAG	~32kDa	HEK 293 cells	Hu	
CTRP7 (GD) (human) (rec.)	AG-40A-0135	10 µg 50 µg	His	~17kDa	*E. coli*	Hu	
CTRP9 (GD) (human) (rec.)	AG-40A-0176	10 µg 50 µg	His	~16kDa	*E. coli*	Hu	
CTRP9 (GD) (mouse) (rec.)	AG-40A-0130	10 µg 50 µg	His	~16kDa	*E. coli*	Ms	
CTRP9 (human) (rec.)	AG-40A-0179	10 µg	His	~35kDa	*E. coli*	Hu	
CTRP10 (human) (rec.)	AG-40A-0185	10 µg 50 µg	FLAG	~29kDa	HEK 293 cells	Hu	
CTRP10 (GD) (human) (rec.)	AG-40A-0136	10 µg 50 µg	His	~16kDa	*E. coli*	Hu	
CX3CL1, Soluble (human) (rec.)	AG-40A-0079	10 µg 50 µg	FLAG	~80kDa	HEK 293 cells	Hu	
Darcin (mouse) (rec.)	AG-40B-0078 MultiPack	10 µg 3 x 10 µg	No Tag	~17kDa	*E. coli*	Ms	
DLK1 (human) (rec.)	AG-40A-0133	10 µg 50 µg	FLAG	~40kDa	HEK 293 cells	Hu	
DLK1 (human):Fc (human) (rec.)	AG-40A-0118	10 µg 50 µg	Fc	~80kDa	HEK 293 cells	Hu	
DLK1 (mouse):Fc (human) (rec.)	AG-40A-0107	10 µg 50 µg	Fc	~80kDa	HEK 293 cells	Hu	
DLK2 (human):Fc (human) (rec.)	AG-40A-0158	10 µg 50 µg	Fc	~70kDa	HEK 293 cells	Hu	
DLL1 (human) (rec.)	AG-40A-0073	10 µg 50 µg	FLAG	~70kDa	HEK 293 cells	Hu	
DLL1 (human):Fc (human) (rec.)	AG-40A-0116	10 µg 50 µg	Fc	~100kDa	HEK 293 cells	Hu	
DLL1 (mouse):Fc (human) (rec.)	AG-40A-0148	10 µg 50 µg	Fc	~100kDa	HEK 293 cells	Ms	
DLL3 (human) (rec.)	AG-40A-0160	10 µg 50 µg	FLAG	~55kDa	HEK 293 cells	Hu	

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Highlights

Calreticulin (human) (rec.) (His)

AG-40A-0132-C010 10 µg
AG-40A-0132-C050 50 µg

SOURCE/HOST: *E. coli.*

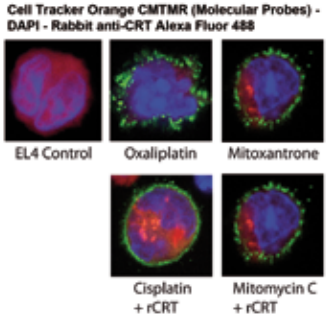
SEQUENCE: Human calreticulin (aa18-417) is fused at the C-terminus to a His-tag.

MW: ~55kDa (SDS-PAGE).

PURITY: ≥90% (SDS-PAGE).

FIGURE: Immunofluorescence: Cells were incubated with rCRT (Prod. No. AG-40A-0132) and stained.

Pictures courtesy of Prof. Guido Kroemer, INSERM, Paris.



PRODUCT NAME	PID	SIZE	TAG	MW BY SDS-PAGE	SOURCE	SPE-CIES	LIT REF.
DLL3 (human):Fc (human) (rec.)	AG-40A-0113	10 µg 50 µg	Fc	~90kDa	HEK 293 cells	Hu	
DLL3 (ED) (mouse):Fc (human) (rec.)	AG-40A-0178	10 µg	Fc	~90kDa	HEK 293 cells	Ms	
DLL4 (human):Fc (human) (rec.)	AG-40A-0077	10 µg 50 µg	Fc	~100kDa	HEK 293 cells	Hu	
DLL4 (mouse):Fc (human) (rec.)	AG-40A-0145	10 µg	Fc	~95kDa	HEK 293 cells	Ms	
DNER (ED) (human) (rec.)	AG-40A-0137	10 µg 50 µg	FLAG	~100kDa	HEK 293 cells	Hu	
DNER (ED) (human):Fc (human) (rec.)	AG-40A-0119	10 µg 50 µg	Fc	~120kDa	HEK 293 cells	Hu	
DNER (ED) (mouse):Fc (human) (rec.)	AG-40A-0177	10 µg 50 µg	Fc		HEK 293 cells	Ms	
DR6 (human):Fc (human) (rec.)	AG-40B-0011 MultiPack	50 µg 3 x 50 µg	Fc	~80kDa	HEK 293 cells	Hu	
DR6 (mouse):Fc (human) (rec.)	AG-40B-0062 MultiPack	50 µg 3 x 50 µg	Fc	~80kDa	HEK 293 cells	Ms	
Epstein-Barr Virus-induced Gene 3 (human):Fc (human) (rec.)	AG-40A-0110	10 µg 50 µg	Fc	~60kDa	HEK 293 cells	Hu	
FABP1 (human) (rec.)	AG-40A-0039	50 µg	His	~16kDa	*E. coli*	Hu	
FABP3 (human) (rec.)	AG-40A-0036	50 µg	His	~16kDa	*E. coli*	Hu	
FABP4 (human) (rec.)	AG-40A-0035	50 µg	His	~16kDa	*E. coli*	Hu	
Fas (human):Fc (human) (rec.)	AG-40B-0082 MultiPack	50 µg 3 x 50 µg	Fc	~47kDa	HEK 293 cells	Hu, Ms	
FasL, Soluble (human) (rec.)	AG-40B-0001 MultiPack	10 µg 3 x 10 µg	FLAG	~33kDa	HEK 293 cells	Hu, Ms	
FasL, Soluble (human) (rec.) (BULK)	AG-40B-0001AA	500 µg	FLAG	~33kDa	HEK 293 cells	Hu, Ms	
*Enhanced*FasL, Soluble (human) (rec.) Pack - 1x10µg of FasL, Soluble (human) (rec.) - 4x50µg of TNF Ligands Enhancer	AG-44B-0001	1 Set	FLAG		HEK 293 cells	Hu, Ms	✓
FGF-19 (human) (rec.)	AG-40A-0186	10 µg 50 µg	FLAG		HEK 293 cells	Hu	
FGF-19 (human) (rec.)	AG-40A-0111	10 µg 50 µg	His	~28kDa	HEK 293 cells	Hu	
FGF-19 (human):Fc (human) (rec.)	AG-40A-0187	10 µg 50 µg	Fc	~50kDa	HEK 293 cells	Hu	
FGF-21 (human) (rec.)	AG-40A-0091	10 µg 50 µg	FLAG	~22kDa	HEK 293 cells	Hu	
FGF-21 (human) (rec.)	AG-40A-0098	10 µg 50 µg	His	~22kDa	HEK 293 cells	Hu	
FGF-21 (human):Fc (human) (rec.)	AG-40A-0095	10 µg 50 µg	Fc	~50kDa	HEK 293 cells	Hu	
FGF-21 (mouse) (rec.)	AG-40A-0092	10 µg 50 µg	FLAG	~22kDa	HEK 293 cells	Ms	
FGF-21 (mouse) (rec.)	AG-40A-0099	10 µg 50 µg	His	~22kDa	HEK 293 cells	Ms	
FGF-21 (mouse):Fc (human) (rec.)	AG-40A-0097	10 µg 50 µg	Fc	~50kDa	HEK 293 cells	Ms	
FGF-23 (human) (rec.)	AG-40A-0114	10 µg 50 µg	His	~35kDa	HEK 293 cells	Hu	
FGF-23 (human):Fc (human) (rec.)	AG-40A-0109	10 µg 50 µg	Fc	~60kDa	HEK 293 cells	Hu	
FGF-23 (mouse):Fc (human) (rec.)	AG-40A-0128	10 µg 50 µg	Fc	~50kDa	HEK 293 cells	Ms	
FGF-23 (R179Q Mutant) (human) (rec.)	AG-40A-0126	10 µg	His	~30kDa	HEK 293 cells	Hu	

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SPECIES: **Hu** = Human; **Ms** = Mouse; **Rt** = Rat; **Dg** = Dog

PRODUCT NAME	PID	SIZE	TAG	MW BY SDS-PAGE	SOURCE	SPE-CIES	LIT REF.
Flagellin (high purity)	AG-40B-0025 MultiPack	10 µg 3 x 10 µg			Salmonella typh. strain 14028	Hu, Ms	✓
Fn14 (human):Fc (human) (rec.)	AG-40B-0034 MultiPack	50 µg 3 x 50 µg	Fc	~35kDa .	HEK 293 cells	Hu, Ms	
sFRP-5 (human) (rec.)	AG-40A-0182	10 µg	FLAG	~30kDa	HEK 293 cells	Hu	
FTO (human) (rec.)	AG-40A-0112	10 µg 50 µg	His	~65kDa	*E. coli*	Hu	
FTO (mouse) (rec.)	AG-40A-0127	10 µg 50 µg	His	~55kDa	*E. coli*	Ms	
FTO (rat) (rec.)	AG-40A-0146	10 µg 50 µg	His	~55kDa	*E. coli*	Rt	
GITR (mouse):Fc (human) (rec.)	AG-40B-0002 MultiPack	50 µg 3 x 50 µg	Fc	~45kDa	HEK 293 cells	Ms	
GITRL (human) (rec.)	AG-40A-0024	50 µg	His	~16kDa	*E. coli*	Hu	
GITRL, Soluble (human) (rec.)	AG-40A-0019	50 µg	FLAG	~22kDa	HEK 293 cells	Hu	
GITRL, Soluble (mouse) (rec.)	AG-40A-0008	50 µg	FLAG	~22kDa	HEK 293 cells	Ms	✓
GITRL, Soluble (mouse) (rec.)	AG-40A-0009	50 µg	His	~16kDa	*E. coli*	Ms	✓
GPX1 (human) (rec.)	AG-40A-0150	10 µg 50 µg	His	~25kDa	*E. coli*	Hu	
GPX2 (human) (rec.)	AG-40A-0154	10 µg 50 µg	His	~25kDa	*E. coli*	Hu	
GPX3 (human) (rec.)	AG-40A-0037	10 µg 50 µg	FLAG	~30kDa	HEK 293 cells	Hu	
GPX3 (mouse) (rec.)	AG-40A-0089	10 µg 50 µg	FLAG	~22kDa	HEK 293 cells	Ms	
GPX4 (human) (rec.)	AG-40A-0159	10 µg 50 µg	His	~20kDa	*E. coli*	Hu	
GPX5 (human) (rec.)	AG-40A-0169	10 µg 50 µg	FLAG	~25kDa	HEK 293 cells	Hu	
GPX7 (human) (rec.)	AG-40A-0170	10 µg 50 µg	FLAG	~22kDa	HEK 293 cells	Hu	
Granulin C (human) (rec.)	AG-40A-0129	10 µg 50 µg	His	~10kDa	*E. coli*	Hu	

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Highlights

IL-33 (human) (rec.) (His)

AG-40A-0042-C010 10 µg
AG-40A-0042-C050 50 µg

SOURCE/HOST: *E. coli.*

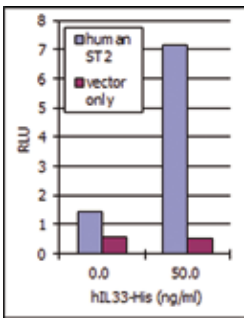
SEQUENCE: Human IL-33 (aa 112-270) is fused at the C-terminus to a His-tag.

MW: ~18kDa (SDS-PAGE).

PURITY: ≥90% (SDS-PAGE).

LIT: IL-33 can promote survival, adhesion and cytokine production in human mast cells: M. Iikura, et. al; Lab. Invest. **87,** 971 (2007) • Interleukin-33 enhances adhesion, CD11b expression and survival in human eosinophils: M. Suzukawa, et al.; Lab. Invest. **88,** 1245 (2008) • An IL-1 cytokine member, IL-33, induces human basophil activation via its ST2 receptor: M. Suzukawa, et al.; J. Immunol. **181,** 5981 (2008)

FIGURE: Activation of a human ST2-dependent NF-κB pathway using IL-33 (human) (rec.) (His) (Prod. No. AG-40A-0042).



PRODUCT NAME	PID	SIZE	TAG	MW BY SDS-PAGE	SOURCE	SPE-CIES	LIT REF.
HES1 (human) (rec.)	AG-40A-0180	10 µg 50 µg	His	~35kDa	*E. coli*	Hu	
IDO (human) (rec.)	AG-40A-0028	50 µg	His	~40kDa	*E. coli*	Hu	
IDO (mouse) (rec.)	AG-40A-0030	50 µg	His	~40kDa	*E. coli*	Ms	
IGFLR1 (mouse):Fc (human) (rec.)	AG-40B-0085	10 µg 50 µg	Fc	~50kDa	HEK 293 cells	Ms	✓
IL-1 Receptor Type I (human):Fc (human) (rec.)	AG-40B-0024 MultiPack	50 µg 3 x 50 µg	Fc	~80kDa	HEK 293 cells	Hu	
IL-1β (human) (rec.) (untagged)	AG-40B-0023 MultiPack	10 µg 3 x 10 µg	No Tag	~17kDa	*E. coli*	Hu	
IL-1β (mouse) (rec.) (untagged)	AG-40B-0086 MultiPack	10 µg 3 x 10 µg	No Tag	~17kDa	*E. coli*	Ms	
IL-1F5 (mouse) (rec.)	AG-40B-0057	50 µg	No Tag	~17kDa	*E. coli*	Ms	
IL-17A (human):Fc (human) (rec.)	AG-40A-0066	10 µg 50 µg	Fc	~45kDa	HEK 293 cells	Hu	
IL-23 (human) (rec.)	AG-40A-0038	10 µg 50 µg	FLAG	~75kDa	HEK 293 cells	Hu	
IL-27B *see Epstein-Barr Virus-induced Gene 3*							
IL-33 (human) (rec.) (untagged)	AG-40B-0038 MultiPack	10 µg 5 x 10 µg	No Tag	~18kDa	*E. coli*	Hu	
IL-33 (human) (rec.) (untagged) (BULK)	AG-40B-0038AA	500 µg	No Tag	~18kDa	*E. coli*	Hu	
IL-33 (human) (rec.)	AG-40A-0042	10 µg 50 µg	His	~18kDa	*E. coli*	Hu	✓
IL-33 (human) (rec.)	AG-40A-0054	10 µg 50 µg	FLAG	~23kDa	HEK 293 cells	Hu	
IL-33 (HDLHTH) (human) (rec.)	AG-40A-0162	10 µg	His	~24kDa	*E. coli*	Hu	
IL-33 (mouse) (rec.) (untagged)	AG-40B-0041 MultiPack	10 µg 5 x 10 µg	No Tag	~18kDa	*E. coli*	Hu, Ms	
IL-33 (mouse) (rec.) (untagged) (BULK)	AG-40B-0041AA	500 µg	No Tag	~18kDa	*E. coli*	Hu, Ms	
IL-33 (mouse) (rec.)	AG-40A-0053	10 µg 50 µg	His	~20kDa	*E. coli*	Ms	
Pro-IL-33 (human) (rec.)	AG-40A-0165	10 µg	His	~35kDa	*E. coli*	Hu	
IL-37 (human) (rec.)	AG-40A-0174	10 µg 50 µg	His	~30kDa	*E. coli*	Hu	
IL-37 (truncated) (human) (rec.)	AG-40A-0190	10 µg 50 µg	His	~20kDa	*E. coli*	Hu	
*iz*TRAIL, Soluble (human) (rec.)	AG-40B-0069 MultiPack	10 µg 5 x 10 µg	IZ	~82kDa (trimer) ~28kDa (monomer)	*E. coli*	Hu	✓
Jagged-1 (human):Fc (human) (rec.)	AG-40A-0081	10 µg 50 µg	Fc	~150kDa	HEK 293 cells	Hu	
Jagged-1 (mouse):Fc (human) (rec.)	AG-40A-0157	10 µg 50 µg	Fc	~150kDa	HEK 293 cells	Ms	
Jagged-2 (human):Fc (human) (rec.)	AG-40A-0155	10 µg	Fc	~150kDa	HEK 293 cells	Hu	
Jagged-2 (mouse):Fc (human) (rec.)	AG-40A-0183	10 µg 50 µg	Fc	~150kDa	HEK 293 cells	Ms	
*Killer*TRAIL™ (R1 specific), Soluble (human) (rec.)	AG-40T-0003	50 µg	His		*E. coli*	Hu	
*Killer*TRAIL™, Soluble (human) (rec.)	AG-40T-0001 MultiPack BULK	50 µg 3 x 50 µg 500 µg	His		*E. coli*	Hu, Ms	
Klotho (ED) (human):Fc (human) (rec.)	AG-40A-0124	10 µg	Fc	~110kDa	HEK 293 cells	Hu	
βKlotho (ED) (human):Fc (human) (rec.)	AG-40A-0125	10 µg	Fc	~180kDa	HEK 293 cells	Hu	

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PRODUCT NAME	PID	SIZE	TAG	MW BY SDS-PAGE	SOURCE	SPE-CIES	LIT REF.
LAG-3 (human):Fc (human) (rec.)	AG-40B-0031	50 µg	Fc	~80kDa	CHO cells	Hu, Ms, Mk	✓
LAG-3 (mouse):Fc (mouse) (rec.)	AG-40B-0039	50 µg	Fc	~180kDa	CHO cells	Hu, Ms	✓
LAG-3 (mouse):Fc (mouse) (rec.) (BULK)	AG-40B-0039AA	500 µg	Fc	~180kDa	CHO cells	Hu, Ms	✓
LIGHT, Soluble (human) (rec.)	AG-40B-0009 MultiPack	10 µg 3 x 10 µg	FLAG	~25kDa	CHO cells	Hu, Ms	
Lipocalin-2 (human) (rec.)	AG-40A-0102	10 µg 50 µg	FLAG	~25kDa	HEK 293 cells	Hu	
Lipocalin-2 (mouse) (rec.)	AG-40A-0106	10 µg 50 µg	FLAG	~25kDa	HEK 293 cells	Ms	
Lipocalin-2 (rat) (rec.)	AG-40A-0108	10 µg 50 µg	FLAG	~25kDa	HEK 293 cells	Rt	
LRRC32 (human):Fc (human) (rec.)	AG-40B-0045	50 µg	Fc	~100kDa	CHO cells	Hu	
*Mega*APRIL™, Soluble (human) (rec.)	AG-40B-0017 MultiPack	3 x 10 µg	FLAG	~34kDa	HEK 293 cells	Hu, Ms	✓
*Mega*APRIL™, Soluble (mouse) (H98) (rec.)	AG-40B-0035 MultiPack	3 x 10 µg	FLAG		HEK 293 cells	Hu, Ms	
*Mega*CD40L™, Soluble (human) (rec.)	AG-40B-0010	10 µg	FLAG	~35-40kDa	CHO cells	Hu, Ms	
*Mega*CD40L™, Soluble (mouse) (rec.)	AG-40B-0020	10 µg	FLAG	~35-40kDa	CHO cells	Hu, Ms	✓
*Mega*OX40L™, Soluble (mouse) (rec.)	AG-40B-0029	10 µg	FLAG	~40kDa	HEK 293 cells	Hu, Ms	✓
*Mega*TNF-α™, Soluble (human) (rec.)	AG-40B-0019	10 µg	FLAG	~34kDa	HEK 293 cells	Hu, Ms	
MFAP4 (human) (rec.)	AG-40A-0072	10 µg 50 µg	FLAG	~36kDa	HEK 293 cells	Hu	
Nampt (Visfatin/PBEF) (human) (rec.)	AG-40A-0018	50 µg	His	~52kDa	*E. coli*	Hu	✓
Nampt (Visfatin/PBEF) (human) (rec.) (BULK)	AG-40A-0018AA	500 µg	His	~52kDa	*E. coli*	Hu	
Nampt (Visfatin/PBEF) (human) (rec.)	AG-40A-0031	10 µg 50 µg	FLAG	~52kDa	HEK 293 cells	Hu	✓
Nampt (Visfatin/PBEF) (human) (rec.) (BULK)	AG-40A-0031AA	500 µg	FLAG	~52kDa	HEK 293 cells	Hu	
Nampt (Visfatin/PBEF) (mouse) (rec.)	AG-40A-0017	50 µg	His	~52kDa	*E. coli*	Ms	✓

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Mega Ligands

Highlights

***Mega*Ligands are high activity constructs in which two trimeric protein ligands are artificially linked via the collagen domain of ACRP30.**

LIT: Conversion of membrane-bound Fas (CD95) ligand to its soluble form is associated with downregulation of its proapoptotic activity and loss of liver toxicity: P. Schneider, et al.; J. Exp. Med. **187,** 12051 (1998)

*Mega*CD40L™, Soluble (human) (rec.)	AG-40B-0010
*Mega*CD40L™, Soluble (mouse) (rec.)	AG-40B-0020
*Mega*APRIL™, Soluble (human) (rec.)	AG-40B-0017
*Mega*APRIL™, Soluble (mouse) (H98) (rec.)	AG-40B-0035
*Mega*OX40L™, Soluble (mouse) (rec.)	AG-40B-0029
*Mega*TNF-α™, Soluble (human) (rec.)	AG-40B-0019

PRODUCT NAME	PID	SIZE	TAG	MW BY SDS-PAGE	SOURCE	SPE-CIES	LIT REF.
Nampt (Visfatin/PBEF) (mouse) (rec.)	AG-40A-0056	10 µg 50 µg	FLAG	~50kDa	HEK 293 cells	Ms	
Nampt (Visfatin/PBEF) (rat) (rec.)	AG-40A-0027	50 µg	His	~50kDa	*E. coli*	Rt	
Nampt (Visfatin/PBEF) (rat) (rec.)	AG-40A-0058	10 µg 50 µg	FLAG	~60kDa	HEK 293 cells	Rt	
Netrin-1 (human):Fc (human) (rec.)	AG-40B-0075	10 µg	Fc	~90kDa	HEK 293 cells	Hu, Ms, Rt	
NMNAT1 (human) (rec.)	AG-40A-0120	10 µg 50 µg	His	~35kDa	*E. coli*	Hu	✓
NMNAT2 (human) (rec.)	AG-40A-0153	10 µg 50 µg	His	~35kDa	*E. coli*	Hu	
NQO1 (human) (rec.)	AG-40A-0152	50 µg	His	~30kDa	*E. coli*	Hu	
NUCB2 (mouse) (rec.)	AG-40A-0074	10 µg 50 µg	His	~55kDa	*E. coli*	Ms	
Omentin (human) (rec.)	AG-40A-0063	10 µg 50 µg	His	~35kDa	*E. coli*	Hu	
Omentin (human) (rec.)	AG-40B-0042 MultiPack	10 µg 3 x 10 µg	FLAG	~38kDa	CHO cells	Hu	
OX40 (human):Fc (human) (rec.)	AG-40B-0014 MultiPack	50 µg 3 x 50 µg	Fc	~70kDa	HEK 293 cells	Hu, Ms	
*Mega*OX40L™, Soluble (mouse) (rec.)	AG-40B-0029	10 µg	FLAG	~40kDa	HEK 293 cells	Hu, Ms	✓
PEDF (human) (rec.)	AG-40B-0077 MultiPack	10 µg 3 x 10 µg	FLAG	~47kDa	CHO cells	Hu	
Periostin (mouse) (rec.)	AG-40B-0081 MultiPack	10 µg 3 x 10 µg	FLAG	~85kDa	CHO cells	Ms	
Progranulin (human) (rec.)	AG-40A-0068	10 µg 50 µg	FLAG	~90kDa	HEK 293 cells	Hu	
Progranulin (mouse) (rec.)	AG-40A-0080	10 µg 50 µg	FLAG	~90kDa	HEK 293 cells	Ms	
RANK (human):Fc (human) (rec.)	AG-40B-0018 MultiPack	50 µg 3 x 50 µg	Fc	~55kDa	HEK 293 cells	Hu, Ms	
Fc (human):RANKL, Soluble (mouse) (rec.)	AG-40B-0059	10 µg	Fc	~55kDa	HEK 293 cells	Ms	✓
RBP4 (human) (rec.)	AG-40A-0034	50 µg 100 µg	His	~23kDa	*E. coli*	Hu	
RBP4 (human) (rec.)	AG-40A-0041	10 µg 50 µg	FLAG	~23kDa	HEK 293 cells	Hu	
RBP4 (mouse) (rec.)	AG-40A-0040	50 µg 100 µg	His	~20kDa	*E. coli*	Ms	
RBP4 (mouse) (rec.)	AG-40A-0045	10 µg 50 µg	FLAG	~23kDa	HEK 293 cells	Ms	
RBP4 (rat) (rec.)	AG-40A-0043	50 µg	His	~23kDa	*E. coli*	Rt	
RBP4 (rat) (rec.)	AG-40A-0049	10 µg 50 µg	FLAG	~23kDa	HEK 293 cells	Rt	
RELM-β (mouse) (rec.)	AG-40A-0023	50 µg	FLAG	~12kDa	HEK 293 cells	Ms	
Resistin (human) (rec.)	AG-40A-0010	50 µg	FLAG	~12kDa	HEK 293 cells	Hu	✓
Resistin (mouse) (rec.)	AG-40A-0011	50 µg	FLAG	~15kDa	HEK 293 cells	Ms	
Resistin (rat) (rec.)	AG-40A-0013	50 µg	His	~12kDa	*E. coli*	Rt	
Resistin (rat) (rec.)	AG-40A-0012	50 µg	FLAG	~12kDa	HEK 293 cells	Rt	
Ribosomal Protein S3 (human) (rec.)	AG-40A-0100	10 µg 50 µg	His	~35kDa	*E. coli*	Hu	
Ribosomal Protein S3 (human) (rec.)	AG-40A-0101	10 µg 50 µg	GST	~50kDa	*E. coli*	Hu	

GENERAL: **CCD:** Coiled-coil Domain; **ED:** Ectodomain; **FLD:** Fibrinogen-like Domain; **GD:** Globular Domain; **HDLHTH:** Homeodomain-like Helix-Turn-Helix
SPECIES: **Hu** = Human; **Ms** = Mouse; **Rt** = Rat; **Dg** = Dog

PRODUCT NAME	PID	SIZE	TAG	MW BY SDS-PAGE	SOURCE	SPE-CIES	LIT REF.
SCART1 (NT) (mouse):Fc (human) (rec.)	AG-40B-0064	50 µg	Fc	~75kDa	CHO cells	Ms	
SENP2 (peptidase domain) (mouse) (rec.)	AG-40A-0105	10 µg 50 µg	His	~25kDa	*E. coli*	Ms	
SIGIRR (human):Fc (human) (rec.)	AG-40A-0093	10 µg 50 µg	Fc	~50kDa	HEK 293 cells	Hu	
Sirtuin 1 (human) (rec.)	AG-40A-0117	10 µg 50 µg	His	~70kDa	*E. coli*	Hu	
Sirtuin 1 (mouse) (rec.)	AG-40A-0149	10 µg 50 µg	His	~100kDa	*E. coli*	Ms	
Sirtuin 2 (human) (rec.)	AG-40A-0121	10 µg 50 µg	His	~45kDa	*E. coli*	Hu	
Sirtuin 5 (human) (rec.)	AG-40A-0144	10 µg 50 µg	His	~32kDa	*E. coli*	Hu	
Sirtuin 5 (intact form) (human) (rec.)	AG-40A-0139	10 µg 50 µg	His	~40kDa	*E. coli*	Hu	
Sirtuin 6 (human) (rec.)	AG-40A-0140	10 µg 50 µg	His	~45kDa	*E. coli*	Hu	
Sirtuin 7 (human) (rec.)	AG-40A-0147	10 µg 50 µg	His	~45kDa	*E. coli*	Hu	
SOCS-3 (human) (rec.)	AG-40A-0029	50 µg	His	~33kDa	*E. coli*	Hu	
ST2 (human) (rec.)	AG-40A-0062	50 µg	FLAG	~50kDa	HEK 293 cells	Hu	
ST2 (human):Fc (human) (rec.)	AG-40A-0059	50 µg	Fc	~90kDa	HEK 293 cells	Hu	
Super*Killer*TRAIL™, Soluble (human) (rec.)	AG-40T-0002 **MultiPack**	20 µg 3 x 20 µg	His		*E. coli*	Hu	
Super*Killer*TRAIL™, Soluble (mouse) (rec.)	AG-40T-0004 **MultiPack**	20 µg 3 x 20 µg	His		*E. coli*	Hu, Ms	
Syndecan-4 (human):Fc (human) (rec.)	AG-40A-0055	50 µg	Fc	~50kDa	HEK 293 cells	Hu	
TDO (human) (rec.)	AG-40A-0151	10 µg 50 µg	His	~48kDa	*E. coli*	Hu	
Th-POK (human) (rec.)	AG-40A-0088	10 µg 50 µg	His	~90kDa	*E. coli*	Hu	
Th-POK (mouse) (rec.)	AG-40A-0090	10 µg 50 µg	His	~90kDa	*E. coli*	Ms	

GENERAL: **CCD:** Coiled-coil Domain; **ED:** Ectodomain; **FLD:** Fibrinogen-like Domain; **GD:** Globular Domain; **HDLHTH:** Homeodomain-like Helix-Turn-Helix
SPECIES: **Hu** = Human; **Ms** = Mouse; **Rt** = Rat; **Dg** = Dog

Highlights

Sirtuin 1 (human) (rec.) (His)

AG-40A-0117-C010 10 µg
AG-40A-0117-C050 50 µg

SOURCE/HOST: *E. coli.*

SEQUENCE: Human sirtuin 1 (aa 2-555) is fused at the N-terminus to a His-tag.

MW: ~70kDa (SDS-PAGE).

PURITY: ≥95% (SDS-PAGE).

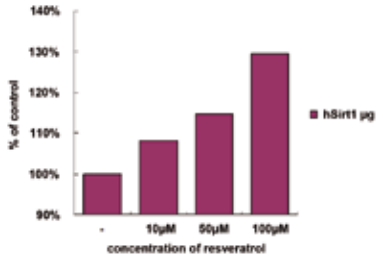
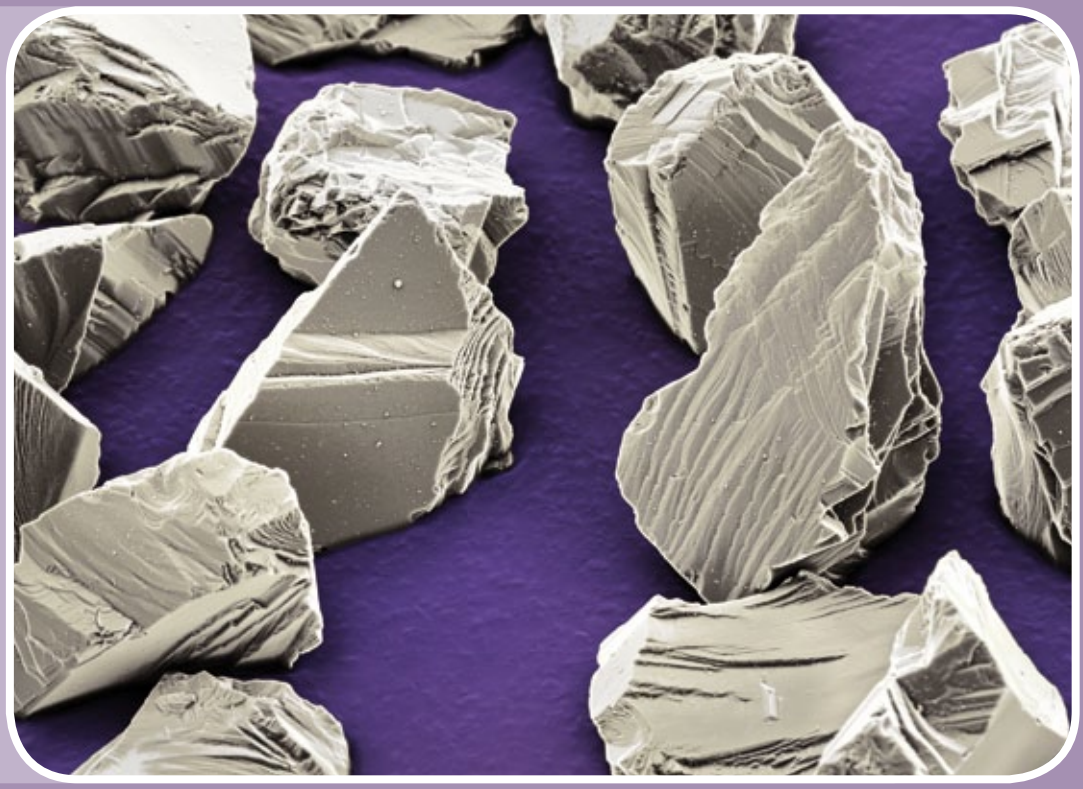


FIGURE: The effect of resveratrol on recombinant human Sirtuin1 activity.

PRODUCT NAME	PID	SIZE	TAG	MW BY SDS-PAGE	SOURCE	SPE-CIES	LIT REF.
Tim-3 (mouse):Fc (human) (rec.)	AG-40A-0046	50 µg	Fc	~70kDa	HEK 293 cells	Ms	
TNF-α, Soluble (human) (rec.)	AG-40B-0006 MultiPack	50 µg 3 x 50 µg	FLAG	~17kDa	*E. coli*	Hu, Ms	
*Mega*TNF-α™, Soluble (human) (rec.)	AG-40B-0019	10 µg	FLAG	~34kDa	HEK 293 cells	Hu, Ms	
TNF-R1 (human):Fc (human) (rec.)	AG-40B-0074 MultiPack	50 µg 3 x 50 µg	Fc	~60kDa	HEK 293 cells	Hu, Ms	
TRAIL, Soluble (human) (rec.)	AG-40B-0003 MultiPack	10 µg 5 x 10 µg	FLAG	~23kDa	*E. coli*	Hu, Ms	
TRAIL, Soluble (human) (rec.) (BULK)	AG-40B-0003AA	500 µg	FLAG	~23kDa	*E. coli*	Hu, Ms	
*iz*TRAIL, Soluble (human) (rec.)	AG-40B-0069 MultiPack	10 µg 5 x 10 µg	IZ	~82kDa (trimer) ~28kDa (monomer)	*E. coli*	Hu	✓
*Killer*TRAIL™ (R1 specific), Soluble (human) (rec.)	AG-40T-0003	50 µg	His		*E. coli*	Hu	
*Killer*TRAIL™, Soluble (human) (rec.)	AG-40T-0001 MultiPack BULK	50 µg 3 x 50 µg 500 µg	His		*E. coli*	Hu, Ms	
Super*Killer*TRAIL™, Soluble (human) (rec.)	AG-40T-0002 MultiPack	20 µg 3 x 20 µg	His		*E. coli*	Hu	
Super*Killer*TRAIL™, Soluble (mouse) (rec.)	AG-40T-0004 MultiPack	20 µg 3 x 20 µg	His		*E. coli*	Hu, Ms	
TRAIL-R1 (human):Fc (human) (rec.)	AG-40B-0070 MultiPack	50 µg 3 x 50 µg	Fc	~52kDa	HEK 293 cells	Hu, Ms	
TRAIL-R2 (human):Fc (human) (rec.)	AG-40B-0071 MultiPack	50 µg 3 x 50 µg	Fc	~50kDa	HEK 293 cells	Hu, Ms	
Enhanced TRAIL, Soluble (human) (rec.) Pack - 2x10µg TRAIL, Soluble (human) (rec.) - 3x50µg TNF Ligands Enhancer	AG-44B-0002	1 Set	FLAG		*E. coli*	Hu, Ms	✓
UNC5B (human):Fc (human) (rec.)	AG-40B-0037 MultiPack	50 µg 3 x 50 µg	Fc	~80kDa	HEK 293 cells	Hu, Ms	
Vaspin (human) (rec.)	AG-40A-0052	50 µg	His	~45kDa	*E. coli*	Hu	
Vaspin (human) (rec.)	AG-40A-0064	10 µg 50 µg	FLAG	~45kDa	HEK 293 cells	Hu	
Vaspin (mouse) (rec.)	AG-40A-0094	10 µg 50 µg	FLAG	~50kDa	HEK 293 cells	Ms	
Visfatin *see Nampt*							

GENERAL: **CCD:** Coiled-coil Domain; **ED:** Ectodomain; **FLD:** Fibrinogen-like Domain; **GD:** Globular Domain; **HDLHTH:** Homeodomain-like Helix-Turn-Helix
SPECIES: **Hu** = Human; **Ms** = Mouse; **Rt** = Rat; **Dg** = Dog



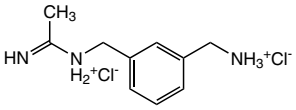
Small Molecules

- New and innovative biochemicals
- Rare antibiotics and natural products from BioViotica
- Inhibitors, activators and modulators
- High purity and documented quality
- Structure search function on website
- Detailed activity description and key literature references

1400W . 2HCl [N-(3-(Aminomethyl)benzyl)acetamidine]

AG-CR1-0018-M005 5 mg
AG-CR1-0018-M025 25 mg
AG-CR1-0018-M100 100 mg

Formula: $C_{10}H_{15}N_3$. 2HCl **MW:** 177.3 . 73.0 **CAS:** 214358-33-5

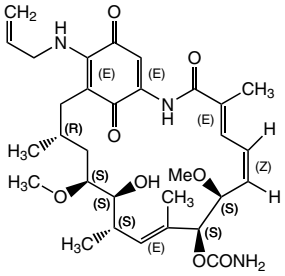


• A slow, tight binding and highly selective inhibitor of iNOS (NOS II) • Inhibits tumor growth • Improves contractile function • Anti-inflammatory

17-AAG [17-(Allylamino)-17-desmethoxygeldanamycin]

BVT-0244-C100 100 µg
BVT-0244-M001 1 mg

Formula: $C_{31}H_{43}N_3O_8$ **MW:** 585.7 **CAS:** 75747-14-7



Semi-synthetic derivative of geldanamycin.

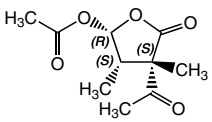
• Potent, less toxic analog of geldanamycin (Prod. No. BVT-0196) • Inhibits the essential ATPase activity of HSP90 • Apoptosis inducer • Antitumor compound

17-DMAG see under "DMAG"

Acetomycin [NSC350598; 3-Acetyl-5-(acetyloxy)dihydro-3,4-dimethyl-2(3*H*)furanone]

BVT-0150-M001 1 mg
BVT-0150-M005 5 mg

Formula: $C_{10}H_{14}O_5$ **MW:** 214.2 **CAS:** 510-18-9



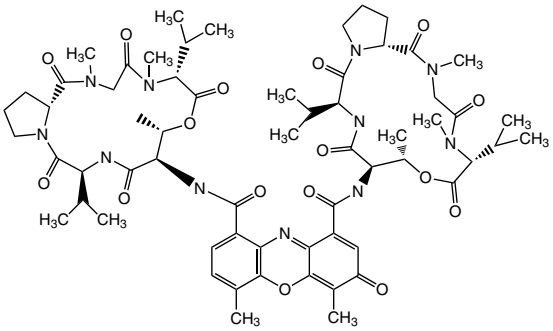
Isolated from *Streptomyces ramulosus.*

• Antibiotic • Antibacterial, antifungal and antiprotozoal • Cytotoxic

Actinomycin D [Actinomycin IV; Actinomycin C1; Dactinomycin]

BVT-0089-M005 5 mg
BVT-0089-M025 25 mg
BVT-0089-M100 100 mg

Formula: $C_{62}H_{86}N_{12}O_{16}$ **MW:** 1255.5 **CAS:** 50-76-0



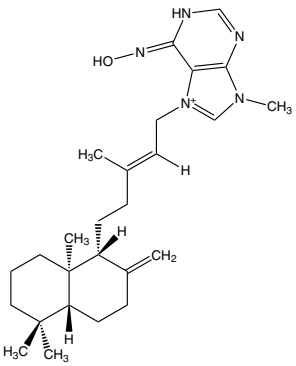
Isolated from *Streptomyces parvulus.*

• Antibiotic • Antitumor compound • Cytotoxic • Apoptosis inducer • RNA synthesis inhibitor • DNA intercalating agent • Mcl-1 expression inhibitor • Activator of the p53 pathway

(-)-Ageloxime D [(-)-Agelasine D oxime]

AG-CN2-0016-M001 1 mg

Formula: $C_{26}H_{40}N_5O$ **MW:** 438.6 **CAS:** 1219817-25-0



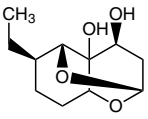
Isolated from sponge *Agelas* sp.

• Antifouling compound • Inhibits biofilm formation but not bacterial growth of *Staphylococcus epidermidis* • Anticancer compound • Cytotoxic

Agistatin B [(2R,4S,4aR,5R,6R,8aR)-6-Ethyloctahydro-2*H*-2,5-epoxy-chromene-4,4a-diol]

BVT-0223-M001 1 mg
BVT-0223-M005 5 mg

Formula: $C_{11}H_{18}O_4$ **MW:** 214.3 **CAS:** 144096-46-8



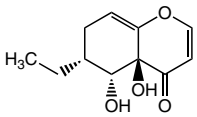
Isolated from fungus A 6239.

• Tricyclic analog of agistatin A • Cholesterol biosynthesis inhibitor

Agistatin D [(4aS,5R,6R)-6-Ethyl-4a,5-dihydroxy-4a,5,6,7-tetrahydro-4*H*-chromen-4-one]

BVT-0286-M001 1 mg
BVT-0286-M005 5 mg

Formula: $C_{11}H_{14}O_4$ **MW:** 210.2 **CAS:** 144096-47-9



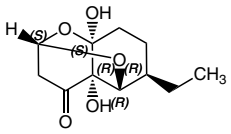
Isolated from fungus A 6239.

• Analog of agistatin A • Cholesterol biosynthesis inhibitor

Agistatin E

BVT-0231-M001 1 mg
BVT-0231-M005 5 mg

Formula: $C_{11}H_{16}O_5$ **MW:** 228.2 **CAS:** 144096-48-0



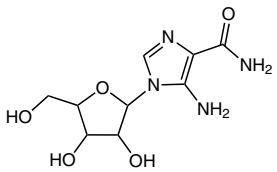
Isolated from fungus A 6239.

• Tricyclic analog of agistatin A • Cholesterol biosynthesis inhibitor • Mycotoxin

AICAR [5-Aminoimidazole-4-carboxamide 1-β-D-ribofuranoside]

AG-CR1-0061-M010 10 mg
AG-CR1-0061-M050 50 mg

Formula: $C_9H_{14}N_4O_5$ **MW:** 258.2 **CAS:** 2627-69-2

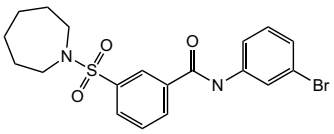


• Cell permeable AMP-activated protein kinase (AMPK) activator • Insulin mimetic • Adipocyte differentiation inhibitor • Apoptosis inducer • PPARα inhibitor • mTOR inhibitor • P70S6K inhibitor • LPS-induced TNF-α production inhibitor • TORC2 phosphorylation inducer • Anti-inflammatory • Antitumor compound • Autophagy inhibitor • HSP90 inhibitor

AK-7 [3-(Azepan-1-ylsulfonyl)-N-(3-bromophenyl) benzamide; N-(3-Bromophenyl)-3-((hexahydro-1*H*-azepin-1-yl)sulfonyl) benzamide]

AG-CR1-3511-M005 5 mg
AG-CR1-3511-M025 25 mg

Formula: $C_{19}H_{21}BrN_2O_3S$ **MW:** 437.4 **CAS:** 420831-40-9

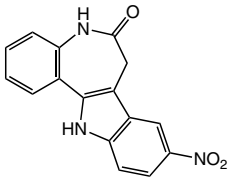


• Brain-permeable SIRT2 (sirtuin 2) inhibitor

Alsterpaullone [9-Nitro-7,12-dihydroindolo-[3,2-d][1]benzazepin-6(5*H*)-one]

AG-CR1-0036-M001 1 mg
AG-CR1-0036-M005 5 mg

Formula: $C_{16}H_{11}N_3O_3$ **MW:** 293.3 **CAS:** 237430-03-4

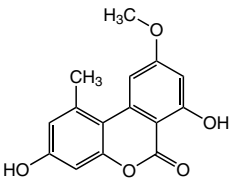


• Potent CDK1/cyclin B inhibitor • Antitumor compound • Potent inhibitor of CDK2/cyclin A, CDK2/cyclin E, CDK5/p25, CDK5/p35 • GSK-3β (glycogen synthase kinase-3β) inhibitor • Apoptosis inhibitor • Apoptosis inducer • Angiogenesis inhibitor

Alternariol monomethyl ether [9-O-Methylalternariol; Djalonensone; AME; BRN 0253553]

BVT-0323-C500 500 µg
BVT-0323-M001 1 mg

Formula: $C_{15}H_{12}O_5$ **MW:** 272.3 **CAS:** 26894-49-5



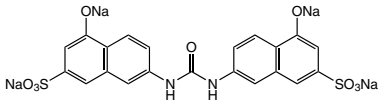
Isolated from *Alternaria* sp.

• Mycotoxin • Antifungal • Phytotoxic • Shown to possess DNA strand-breaking activity • Inhibits the activity of topoisomerase IIα (Topo IIα) in mammalian cells

AMI-1 [Arginine N-methyltransferase inhibitor-1]

AG-CR1-0038-M005 5 mg
AG-CR1-0038-M025 25 mg

Formula: $C_{21}H_{12}N_2O_9S_2Na_4$ **MW:** 592.4

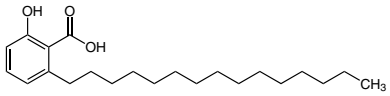


• Potent, cell permeable and specific protein arginine N-methyltransferase 1 (PRMT1) inhibitor • Does not compete for the AdoMet (S-adenosyl-L-methionine; SAM) binding site • HIV-1 RT polymerase inhibitor

Anacardic acid [2-Hydroxy-6-pentadecylbenzoic acid; AA]

AG-CR1-0046-M005 5 mg
AG-CR1-0046-M025 25 mg

Formula: $C_{22}H_{36}O_3$ **MW:** 348.5 **CAS:** 16611-84-0



• Potent histone acetyltransferase (HAT) inhibitor • Antibacterial • SUMOylation inhibitor • Lipoxygenase inhibitor • NF-κB inhibitor • Antitumor compound • Anti-inflammatory • Apoptosis inducer • Antiproliferative

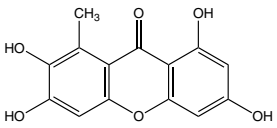
Angustmycin A see Decoyinine

Angustmycin C see Psicofuranine

Anomalin A [2,3,6,8-Tetrahydroxy-1-methylxanthone]

AG-CN2-0006-M001 1 mg

Formula: $C_{14}H_{10}O_6$ **MW:** 274.1 **CAS:** 548740-86-9



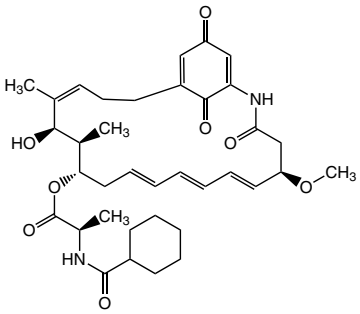
Isolated from marine fungus *Arthrinium* sp.

• Lck (p56lck; lymphocyte specific tyrosine kinase) inhibitor • Antioxidant • DPPH radical scavenger

Ansatrienin A [Mycotrienin I; Antibiotic T 23I]

BVT-0246-M001 1 mg

Formula: $C_{36}H_{48}N_2O_8$ **MW:** 636.8 **CAS:** 82189-03-5



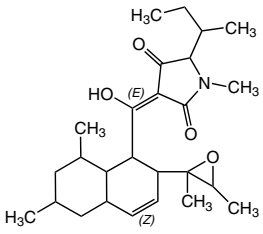
Isolated from *Streptomyces collinus.*

• Antibiotic • Antitumor compound • Antifungal • Inhibits osteoclastic bone resorption

Antibiotic PF 1052

BVT-0338-C500 500 µg
BVT-0338-M001 1 mg

Formula: $C_{26}H_{39}NO_4$ **MW:** 429.6 **CAS:** 147317-15-5



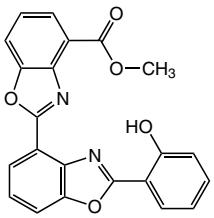
Isolated from *Phoma* sp.

• Antibiotic • Antibacterial, antifungal and phytotoxic

Antibiotic UK-1 [UK1; Methyl 2'-(2-hydroxyphenyl)-[2,4'-bibenzo[d]oxazole]-4-carboxylate]

BVT-0013-C250 250 µg
BVT-0013-M001 1 mg

Formula: $C_{22}H_{14}N_2O_5$ **MW:** 386.4 **CAS:** 151271-53-3



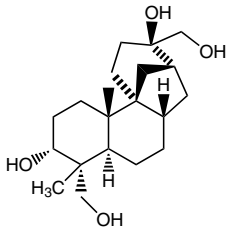
Isolated from *Streptomyces* sp. K17/9.

• Antibiotic • Antifungal • Topoisomerase II (Topo II) inhibitor • Potent anticancer compound

(+)-Aphidicolin [NSC234714; BRN4689958; ICI69653]

BVT-0307-M001 1 mg
BVT-0307-M005 5 mg
BVT-0307-M025 25 mg

Formula: $C_{20}H_{34}O_4$ **MW:** 338.5 **CAS:** 38966-21-1



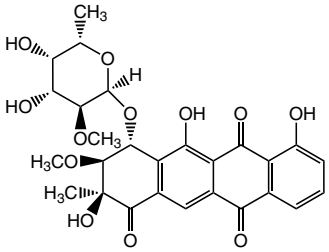
Isolated from *Nigrospora oryzae.*

• Antibiotic • Reversible inhibitor of eukaryotic nuclear DNA replication • Blocks the cell cycle at early S phase • Prolongs the half life of DNA methyltransferase • Specific DNA polymerase α and β inhibitor • Acts synergistically with vincristine and doxorubicin • Apoptosis inhibitor/inducer

Aranciamycin

BVT-0364-C500 500 µg
BVT-0364-M001 1 mg

Formula: $C_{27}H_{28}O_{12}$ **MW:** 544.5 **CAS:** 72389-06-1



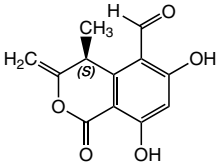
Isolated from *Streptomyces echinatus.*

• Antibiotic • Similar to steffimycin • Active against Gram-positive bacteria *Clostridium histolyticum* collagenase inhibitor • Antitumor compound

(S)-(+)-Ascochin [(S)-6,8-Dihydroxy-4-methyl-3-methylene-1-oxoiso-chroman-5-carbaldehyde]

BVT-0309-M001 1 mg
BVT-0309-M005 5 mg

Formula: $C_{12}H_{10}O_5$ **MW:** 234.2 **CAS:** 935699-58-4



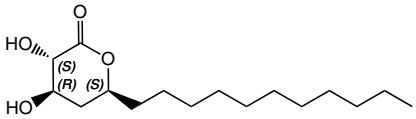
Isolated from *Ascochyta* sp.

• Antibiotic • Antifungal and phytotoxic

Ascolactone [(3S,4R,6S)-3,4-Dihydroxy-6-undecyltetrahydro-2*H*-pyran-2-one]

BVT-0340-C500 500 µg
BVT-0340-M001 1 mg

Formula: $C_{16}H_{30}O_4$ **MW:** 286.4 **CAS:** 757995-43-0



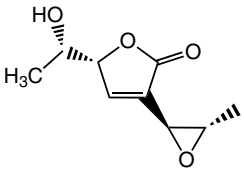
Isolated from *Ascochyta* sp.

• Antifungal • Phytotoxic

Asperlactone [5-(1-Hydroxyethyl)-3-(2,3-epoxypropyl)butenolide]

BVT-0260-M001 1 mg
BVT-0260-M005 5 mg

Formula: $C_9H_{12}O_4$ **MW:** 184.2 **CAS:** 76375-62-7



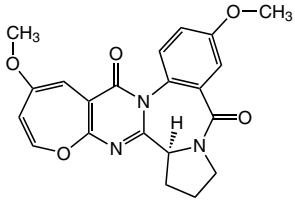
Isolated from *Aspergillus ochraceus.*

• Antibiotic • Nematicidal, insecticidal, antibacterial and antifungal

Asperloxine A

BVT-0266-M001 1 mg

Formula: $C_{21}H_{19}N_3O_5$ **MW:** 393.4



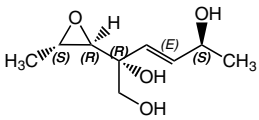
Isolated from *Aspergillus ochraceus.*

• Natural benzodiazepine • Anti-inflammatory

Aspinonene [6,7-Epoxy-5-hydroxymethyl-3-octen-2,5-diol]

BVT-0035-M001 1 mg
BVT-0035-M005 5 mg

Formula: $C_9H_{16}O_4$ **MW:** 188.2 **CAS:** 157676-96-5



Isolated from *Aspergillus ochraceus* (DSM-7428).

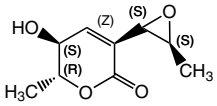
• Multifunctional fungal secondary metabolite • Related to aspyrone (Prod. No. BVT-0029)

Aspyrone

[3-(1,2-Epoxypropyl)-5,6-dihydro-5-hydroxy-6-methyl-2*H*-pyran-2-one]

BVT-0029-M001	1 mg
BVT-0029-M005	5 mg

Formula: $C_9H_{12}O_4$ **MW:** 184.2 **CAS:** 17398-00-4



Isolated from *Aspergillus ochraceus.*

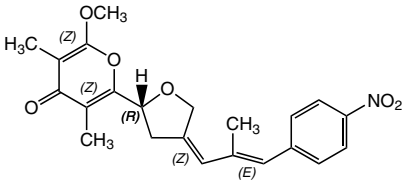
• Antibiotic • Shows nematicidal, insecticidal, antibacterial and antifungal activity • Related to asperlactone (Prod. No. BVT-0260) and aspinonene (Prod. No. BVT-0035)

Aureothin

[Mycolutein; Distacin; JA 2814K; Antibiotic 74A; BRN 0058476]

BVT-0303-M001	1 mg
BVT-0303-M005	5 mg

Formula: $C_{22}H_{23}NO_6$ **MW:** 397.4 **CAS:** 2825-00-5



Isolated from *Streptomyces thioluteus.*

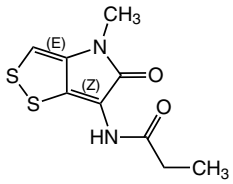
• Oxidoreductase inhibitor • Antitrypanosomal, antibacterial, antifungal, insecticidal and pesticidal • Antitumor compound

Aureothricin

[Propionylpyrrothione; Farcinicin]

BVT-0345-C500	500 µg
BVT-0345-M001	1 mg
BVT-0345-M005	5 mg

Formula: $C_9H_{10}N_2O_2S_2$ **MW:** 242.3 **CAS:** 574-95-8



Isolated from *Streptomyces thioluteus.*

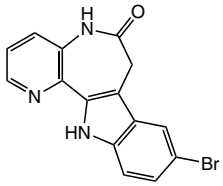
• Antibiotic • Active against Gram-positive and Gram-negative bacteria, yeast, filamentous fungi, protozoa and insects • Potent bacterial and yeast RNA polymerases inhibitor • Fungal mannan and glucan formation inhibitor • Similar to thiolutin • Antitumor compound

1-Azakenpaullone

[9-Bromo-7,12-dihydropyrido[3',2':2,3]azepino[4,5-*b*]indol-6(5*H*)-one]

AG-CR1-0035-M001	1 mg
AG-CR1-0035-M005	5 mg

Formula: $C_{15}H_{10}BrN_3O$ **MW:** 328.2 **CAS:** 676596-65-9



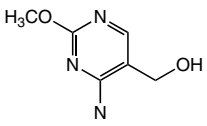
• Potent and ATP-competitive GSK-3β (glycogen synthase kinase-3β) inhibitor

Bacimethrin

[4-Amino-2-methoxy-5-pyrimidinemethanol; 4-Amino-5-hydroxymethyl-2-methylpyrimidine]

BVT-0226-C500	500 µg
BVT-0226-M001	1 mg

Formula: $C_6H_9N_3O_2$ **MW:** 155.2 **CAS:** 3690-12-8



Isolated from *Streptomyces albus.*

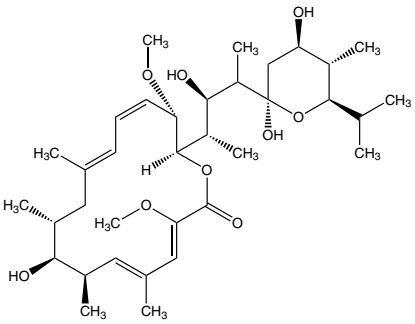
• Antibiotic • Antibacterial • Thiamine antagonist • Phosphatase kinase inhibitor

Bafilomycin A1

[NSC381866]

BVT-0252-C100	100 µg
BVT-0252-M001	1 mg

Formula: $C_{35}H_{58}O_9$ **MW:** 622.8 **CAS:** 88899-55-2



Isolated from *Streptomyces griseus.*

• Macrolide antibiotic • Vacuolar-type H^+-ATPase inhibitor • Tool for distinguishing among different types of ATPases • Inhibitor of endosomal acidification • Neuroprotective

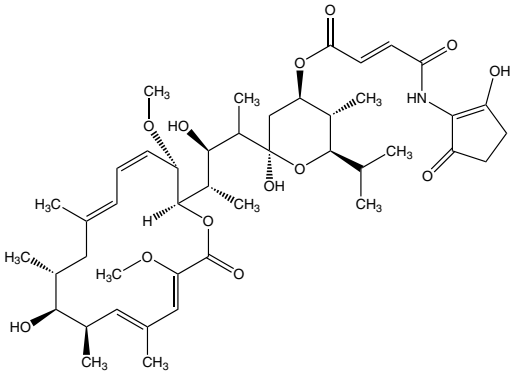
Bafilomycin B1 [Setamycin; BRN4640118]

BVT-0004-C100 100 µg
BVT-0004-M001 1 mg

Formula: $C_{44}H_{65}NO_{13}$ **MW:** 815.9 **CAS:** 88899-56-3

Isolated from *Streptomyces hygroscopicus.*

• Macrolide antibiotic • Specific vacuolar-type H^+-ATPase inhibitor



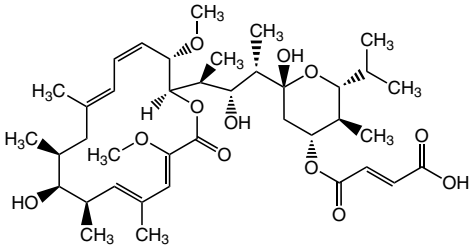
Bafilomycin C1 [L-681,110A1; 2-Demethyl-2-methoxy-24-methyl-hygrolidin]

BVT-0068-M001 1 mg

Formula: $C_{39}H_{60}O_{12}$ **MW:** 720.9 **CAS:** 88979-61-7

Isolated from *Streptomyces* sp. Gö 14F.

• Antibiotic • Specific vacuolar-type H^+-ATPase inhibitor • Antibacterial, antifungal, insecticidal and antihelmintic • Anti-osteoporotic • Neuroprotective

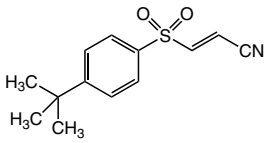


BAY 11-7082 [(E)-3-(4-Methylphenylsulfonyl)-2-propenenenitrile]

AG-CR1-0013-M010 10 mg
AG-CR1-0013-M050 50 mg

Formula: $C_{10}H_9NO_2S$ **MW:** 207.3 **CAS:** 19542-67-7

• IκBα kinase inhibitor • NF-κB inhibitor • Apoptosis inducer • Inhibits the release of proinflammatory cytokines • Inflammasome inhibitor • Platelet aggregation inhibitor

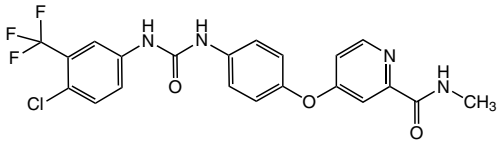


BAY 43-9006 [Sorafenib]

AG-CR1-0025-M001 1 mg
AG-CR1-0025-M005 5 mg
AG-CR1-0025-M025 25 mg

Formula: $C_{21}H_{16}ClF_3N_4O_3$ **MW:** 464.8 **CAS:** 284461-73-0

• Antitumor compound • Broad-spectrum kinase inhibitor • Raf kinase inhibitor • Apoptosis inducer • Cytostatic • Angiogenesis inhibitor

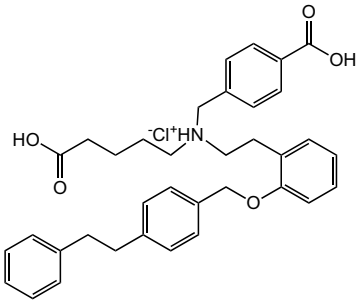


BAY 58-2667 . HCl

AG-CR1-3509-M001 1 mg

Formula: $C_{36}H_{39}NO_5$. HCl **MW:** 565.6 . 36.5 **CAS:** 1240669-95-7

• Nitric Oxide (NO)- and heme-independent soluble guanylyl cyclase activator • Shows potent cardiovascular effects • Potent vasodilator • Anti-aggregating agent



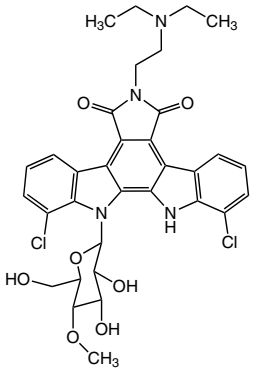
Becatecarin [6-N-[2-(Diethylamino)ethyl]rebeccamycin; NSC 655649; BMY-27557-14; BMS-181176; XL119]

BVT-0258-C250 250 µg
BVT-0258-M001 1 mg

Formula: $C_{33}H_{34}Cl_2N_4O_7$ **MW:** 669.6 **CAS:** 119673-08-4

Semisynthetic.

• Antibiotic • Semisynthetic water-soluble derivative of rebeccamycin (Prod. No. BVT-0139) • Antitumor compound • Topoisomerase II (Topo II) inhibitor • DNA intercalating agent



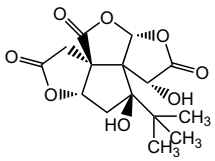
Bilobalide

AG-CN2-0026-M010 10 mg
AG-CN2-0026-M050 50 mg

Formula: $C_{15}H_{18}O_8$ **MW:** 326.3 **CAS:** 33570-04-6

Isolated from *Ginko biloba*.

• Neuroprotective • Mitochondrial gene expression regulator • ROS scavenger • Competitive GABA(A) receptor antagonist • Apoptosis inhibitor • CREB phosphorylation enhancer • Hepatic cytochrome P450 inducer • Activates the phosphatidylinositol 3-kinase (PI3K) dependent pathway

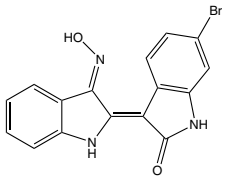


6BIO [2'Z,3'E)-6-Bromoindirubin-3'-oxime]

AG-CR1-0056-M001 1 mg
AG-CR1-0056-M005 5 mg
AG-CR1-0056-M025 25 mg

Formula: $C_{16}H_{10}BrN_3O_2$ **MW:** 356.2 **CAS:** 667463-62-9

• Phosphoinositide-dependent kinase 1 (PDK1) inhibitor • Potent, reversible and ATP-competitive glycogen synthase kinase-3α/β (GSK-3α/β) inhibitor • JAK/STAT3 signaling inhibitor • Apoptosis inducer • Potent antiproliferative agent in malignant lymphoid cell

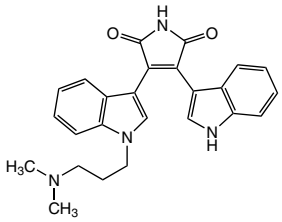


Bisindolylmaleimide I (free base) [GF-109203X; Gö 6850; BIM I]

AG-CR1-0009-M001 1 mg
AG-CR1-0009-M005 5 mg

Formula: $C_{25}H_{24}N_4O_2$ **MW:** 412.5 **CAS:** 133052-90-1

• Cell permeable kinase inhibitor with improved selectivity for protein kinase C (PKC) • Anti-inflammatory • Binds to P-glycoprotein • Telomerase activity inhibitor • Potent GSK-3 (glycogen synthase kinase-3) inhibitor • Necrosis inhibitor

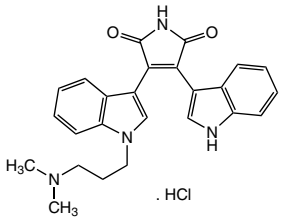


Bisindolylmaleimide I . HCl [GF 109203X; Gö 6850; BIM I]

AG-CR1-0110-M001 1 mg
AG-CR1-0110-M005 5 mg

Formula: $C_{25}H_{24}N_4O_2$. HCl **MW:** 412.5 . 36.5 **CAS:** 176504-36-2

• Cell permeable kinase inhibitor with improved selectivity for protein kinase C (PKC) • Competitive inhibitor for the ATP-binding site of PKC • Anti-inflammatory • Binds to P-glycoprotein • Telomerase activity inhibitor • Potent glycogen synthase kinase-3 (GSK-3) inhibitor • Necrosis inhibitor

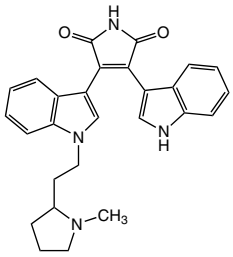


Bisindolylmaleimide II [BIM II]

AG-CR1-0010-M001 1 mg
AG-CR1-0010-M005 5 mg

Formula: $C_{27}H_{26}N_4O_2$ **MW:** 438.5

• Protein kinase C (PKC) inhibitor

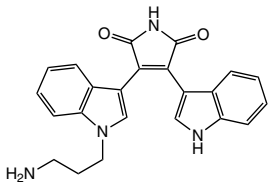


Bisindolylmaleimide III [BIM III]

AG-CR1-0112-M001 1 mg
AG-CR1-0112-M005 5 mg

Formula: $C_{23}H_{20}N_4O_2$ **MW:** 384.4

• Potent and selective protein kinase C (PKC) inhibitor • Inhibits panel of protein kinases (e.g. GSK-3β, CDK2)

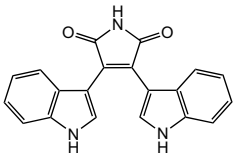


Bisindolylmaleimide IV [Ro 31-6233; Arcyriarubin A; BIM IV; 2,3-bis(1*H*-Indol-3-yl)maleimide]

AG-CR1-0152-M001 1 mg
AG-CR1-0152-M005 5 mg

Formula: $C_{20}H_{13}N_3O_2$ **MW:** 327.3 **CAS:** 119139-23-0

• Cell permeable protein kinase C (PKC) inhibitor • Also protein kinase A (PKA) inhibitor

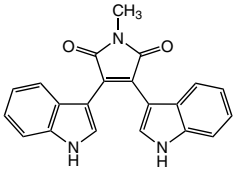


Bisindolylmaleimide V [Ro 31-6045; BIM V]

AG-CR1-0023-M001 1 mg
AG-CR1-0023-M005 5 mg

Formula: $C_{21}H_{15}N_3O_2$ **MW:** 341.4 **CAS:** 113963-68-1

• Negative control for protein kinase C (PKC) inhibitors • S6K inhibitor • Necrosis inhibitor

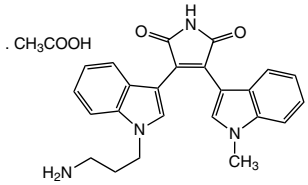


Bisindolylmaleimide VIII . acetate [Ro 31-7549; BIM VIII]

AG-CR1-0114-M001 1 mg
AG-CR1-0114-M005 5 mg

Formula: $C_{24}H_{22}N_4O_2 \cdot CH_3COOH$ **MW:** 398.5 . 60.1 **CAS:** 138516-31-1

• Selective protein kinase C (PKC) inhibitor • Enhances Fas- and TRAIL-mediated apoptosis • Inhibits T cell-mediated autoimmune diseases • Inhibits stimulation of insulin secretion by glucose • Inhibits panel of protein kinases (e.g. GSK-3β, CDK2)

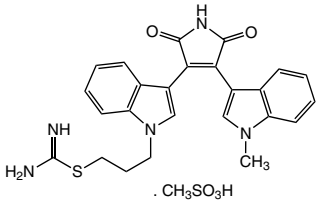


Bisindolylmaleimide IX . methanesulfonate [Ro 31-8220; BIM IX]

AG-CR1-0111-M001 1 mg
AG-CR1-0111-M005 5 mg

Formula: $C_{25}H_{23}N_5O_2S \cdot CH_4O_3S$ **MW:** 457.6 . 96.1 **CAS:** 138489-18-6

• Selective and cell permeable protein kinase C (PKC) inhibitor • Inhibits the stimulation of insulin secretion by glucose • Inhibits T cell activation • Apoptosis inducer • Potent glycogen synthase kinase-3 (GSK-3) inhibitor • Transcription inhibitor • Induces TNF receptor family-mediated cell death • Pim-1 kinase inhibitor • Antitumor compound

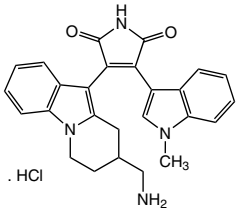


Bisindolylmaleimide X . HCl [Ro 31-8425; BIM X]

AG-CR1-0113-M001 1 mg
AG-CR1-0113-M005 5 mg

Formula: $C_{26}H_{24}N_4O_2$. HCl **MW:** 424.5 . 36.5 **CAS:** 131848-97-0

• Selective protein kinase C (PKC) inhibitor • Inhibits panel of protein kinases (e.g. GSK-3β, CDK2) • Inhibits superoxide generation in human neutrophils

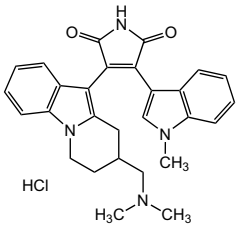


Bisindolylmaleimide XI . HCl [Ro 32-0432; BIM XI]

AG-CR1-0109-M001 1 mg
AG-CR1-0109-M005 5 mg

Formula: $C_{28}H_{28}N_4O_2$. HCl **MW:** 489.0 **CAS:** 151342-35-7

• Selective cell permeable protein kinase C (PKC) inhibitor • G protein-coupled receptor kinase (GRK-5) inhibitor • Prevents T cell-driven chronic inflammatory responses *in vivo*

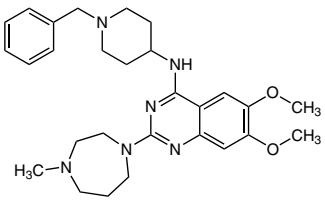


BIX 01294 (free base)

AG-CR1-0051-M001 1 mg
AG-CR1-0051-M005 5 mg
AG-CR1-0051-M025 25 mg

Formula: $C_{28}H_{38}N_6O_2$ **MW:** 490.6 **CAS:** 935693-62-2

• Selective and cell permeable G9a histone-lysine methyltransferase inhibitor (HMTase) • Does not compete with cofactor S-adenosylmethionine • Pluripotent stem cell inducer

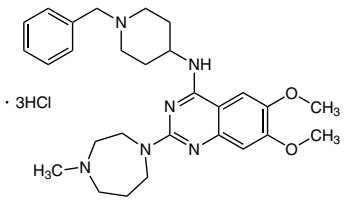


BIX 01294 . 3HCl

AG-CR1-0150-M001 1 mg
AG-CR1-0150-M005 5 mg
AG-CR1-0150-M025 25 mg

Formula: $C_{28}H_{38}N_6O_2$. 3HCl **MW:** 490.6 . 190.4 **CAS:** 935693-62-2

• Selective and cell permeable G9a histone-lysine methyltransferase (HMTase) inhibitor • Does not compete with cofactor S-adenosylmethionine • Pluripotent stem cell inducer



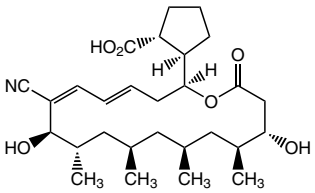
Borrelidin [Treponemycin; U 78548; C2989]

BVT-0098-C500 500 µg
BVT-0098-M001 1 mg

Formula: $C_{28}H_{43}NO_6$ **MW:** 489.6 **CAS:** 7184-60-3

Isolated from *Streptomyces* sp.

• Macrolide antibiotic • Bacterial and eukaryal threonyl-tRNA synthetase (THrRS) inhibitor • Antiangiogenic • Blocks the formation of spontaneous lung metastases of B16-BL6 melanoma cells • Cyclin-dependent kinase (CDK) inhibitor • Antiviral

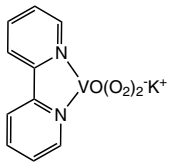


bpV(bipy) [Potassium bisperoxo (bipyridine) oxovanadate (V)]

AG-CR1-0047-M001 1 mg
AG-CR1-0047-M005 5 mg

Formula: $K[VO(O_2)_2C_{10}H_8N_2]$ **MW:** 326.2

• Protein phosphotyrosine phosphatase inhibitor • Insulin mimetic

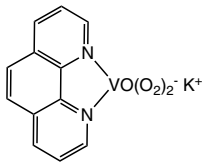


bpV(phen) [Potassium bisperoxo (1,10-phenanthroline) oxovanadate (V)]

AG-CR1-0042-M005 5 mg
AG-CR1-0042-M025 25 mg

Formula: $K[VO(O_2)_2C_{12}H_8N_2] \cdot 3H_2O$ **MW:** 350.2 . 54.0

• Potent protein phosphotyrosine phosphatase inhibitor • Insulin receptor kinase (IRK) inducer • Insulin mimetic • Apoptosis inducer • ERK inducer • Mitogen-activated protein kinase phosphatase-1 (MKP-1) inducer • Angiogenesis inhibitor

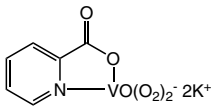


bpV(pic) [Dipotassium bisperoxo (picolinato) oxovanadate (V)]

AG-CR1-0043-M005 5 mg
AG-CR1-0043-M025 25 mg

Formula: $K_2[VO(O_2)_2C_6H_4NO_2] \cdot 2H_2O$ **MW:** 331.2 . 36.0

• Protein phosphotyrosine phosphatase inhibitor • Insulin mimetic • PTEN inhibitor • Angiogenesis inhibitor

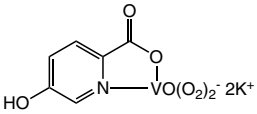


bpV(HOpic) [Dipotassium bisperoxo (5-hydroxypyridine-2-carboxyl) oxovanadate (V)]

AG-CR1-0044-M005 5 mg
AG-CR1-0044-M025 25 mg

Formula: $K_2[VO(O_2)_2C_6H_4NO_3]$ **MW:** 347.2

• Protein phosphotyrosine phosphatase inhibitor • Insulin mimetic • PTEN inhibitor



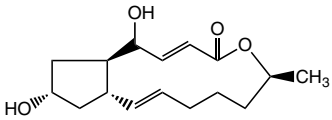
(+)-Brefeldin A [Ascotoxin; Decumbin]

AG-CN2-0018-M005 5 mg
AG-CN2-0018-M010 10 mg
AG-CN2-0018-M025 25 mg

Formula: $C_{16}H_{24}O_4$ **MW:** 280.4 **CAS:** 20350-15-6

Isolated from *Penicillium janthinellum.*

• Antibiotic • Protein transport from ER to Golgi inhibitor • ADP-ribosylation factor (Arf) inhibitor • Cytotoxic • Antiviral • Apoptosis inducer • Antitumor compound • Intracellular collagen degradation inhibitor

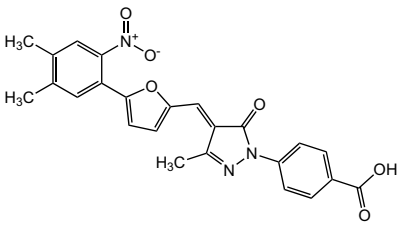


C646 [(E)-4-(4-((5-(4,5-Dimethyl-2-nitrophenyl)furan-2-yl)-methylene)-3-methyl-5-oxo-4,5-dihydro-1*H*-pyrazol-1-yl)benzoic acid]

AG-CR1-3508-M001 1 mg
AG-CR1-3508-M005 5 mg

Formula: $C_{24}H_{19}N_3O_6$ **MW:** 445.4 **CAS:** 328968-36-1

• Reversible cell permeable p300/CBP histone acetyltransferase (HAT) inhibitor • Cell growth inhibitor in human cancer cell lines



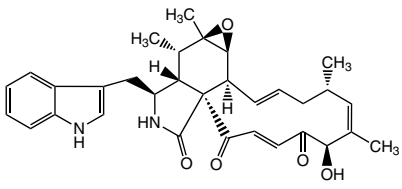
Chaetoglobosin A [NSC366739; BRN1097707]

BVT-0092-M001 1 mg
BVT-0092-M005 5 mg

Formula: $C_{32}H_{36}N_2O_5$ **MW:** 528.7 **CAS:** 50335-03-0

Isolated from *Chaetomium* sp.

• Antibiotic • Cytochalasin analog • Antifungal • Phytotoxic • Antibacterial • Cytotoxic



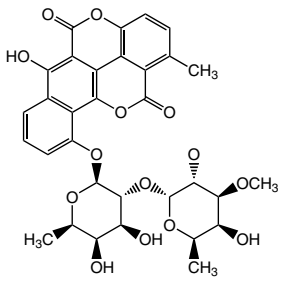
Chartreusin [Lambdamycin]

BVT-0005-M005 5 mg
BVT-0005-M025 25 mg

Formula: $C_{32}H_{32}O_{14}$ **MW:** 640.6 **CAS:** 6377-18-0

Isolated from *Streptomyces chartreusis.*

• Antibiotic • Antitumor compound • Topoisomerase II (Topo II) inhibitor • Induces single-strand scission in DNA in the presence of reducing agents



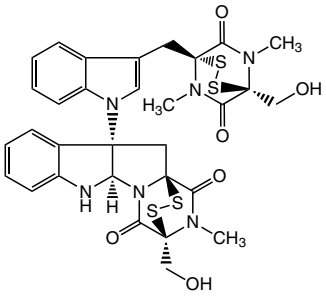
Chetomin [NSC289491; BRN0077366]

BVT-0161-M001 1 mg
BVT-0161-M005 5 mg

Formula: $C_{31}H_{30}N_6O_6S_4$ **MW:** 710.9 **CAS:** 1403-36-7

Isolated from *Chaetomium* sp.

• Antibiotic • Inhibitor of HIF-1 formation by disrupting the binding of p300 to both HIF-1α and HIF-2α • Tumor growth inhibitor • Potent immunosuppressor • Antibacterial and antifungal • Mycotoxin



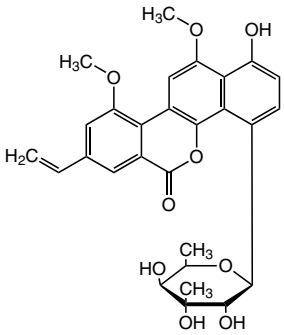
Chrysomycin A [Chrysomycin V; Virenomycin V]

BVT-0099-C250 250 µg
BVT-0099-M001 1 mg

Formula: $C_{28}H_{28}O_9$ **MW:** 508.5 **CAS:** 82196-88-1

Isolated from *Streptomyces* sp.

• Antibiotic • Topoisomerase II (Topo II) inhibitor • Mediates a unique cross-linking reaction between DNA and histidine H3 • Anti-neoplastic • Photosensitizing compound • Antitumor compound



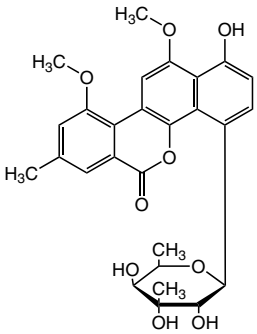
Chrysomycin B [Chrysomycin M; Virenomycin M]

BVT-0100-C250 250 µg
BVT-0100-M001 1 mg

Formula: $C_{27}H_{28}O_9$ **MW:** 496.5 **CAS:** 83852-56-6

Isolated from *Streptomyces* sp.

• Antibiotic • Topoisomerase II (Topo II) inhibitor • Mediates a unique cross-linking reaction between DNA and histidine H3 • Anti-neoplastic • Photosensitizing compound • Antitumor compound • Less potent than chrysomycin A (Prod. No. BVT-0099)

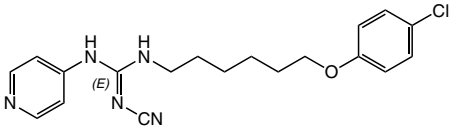


CHS-828 [GMX1778; (E)-1-[6-(4-Chlorophenoxy)hexyl]-2-cyano-3-(pyridin-4-yl)guanidine]

AG-CR1-0064-M005 5 mg
AG-CR1-0064-M025 25 mg

Formula: $C_{19}H_{22}ClN_5O$ **MW:** 371.9 **CAS:** 200484-11-3

• Antitumor compound • Programmed cell death inducer • Cytotoxic • p53 activator • Anti proliferative • IκB kinase inhibitor • NF-κB inhibitor • Nampt/visfatin inhibitor

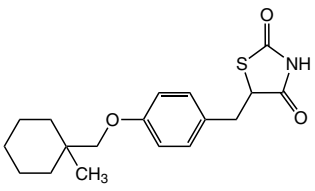


Ciglitazone [(±)-5-[4-(1-Methylcyclohexylmethoxy)benzyl]-thiazolidine-2,4-dione; U-63287]

AG-CR1-0033-M001 1 mg
AG-CR1-0033-M005 5 mg
AG-CR1-0033-M025 25 mg

Formula: $C_{18}H_{23}NO_3S$ **MW:** 333.5 **CAS:** 74772-77-3

• Selective PPARγ agonist • Hypoglycemic agent • Angiogenesis inhibitor • Anti-inflammatory • Apoptosis inducer



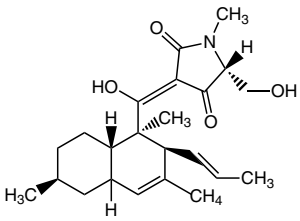
CJ-21058

BVT-0064-M001 1 mg
BVT-0064-M005 5 mg

Formula: $C_{23}H_{33}NO_4$ **MW:** 387.5 **CAS:** 405072-57-3

Isolated from *Phoma* sp.

• Antibiotic • SecA inhibitor • Antibacterial and antifungal • Cytotoxic • Methyl analog of equisetin



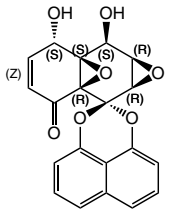
Cladospirone bisepoxide [Palmarumycin C13; Diepoxin ζ; Antibiotic Sch 53514]

BVT-0065-M001 1 mg
BVT-0065-M005 5 mg

Formula: $C_{20}H_{14}O_7$ **MW:** 366.3 **CAS:** 152607-03-9
155866-40-3

Isolated from *Sphaeropsidales* sp.

• Antibiotic • Antibacterial and antifungal • Antitumor compound • Germination inhibitor

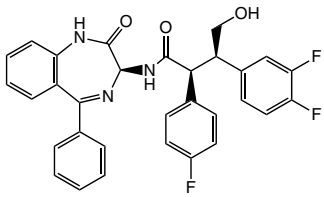


Compound 34

AG-CR1-0007-C200 200 µg
AG-CR1-0007-M001 1 mg

Formula: $C_{31}H_{24}F_3N_3O_3$ **MW:** 543.5

• Cell permeable, highly potent inhibitor of γ-secretase

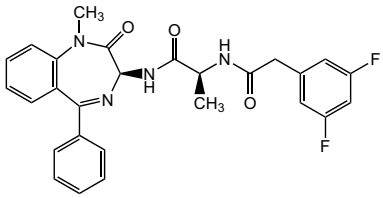


Compound E [(2S)-2-([(3,5-Difluorophenyl)acetyl]amino)-*N*-[(3S)-1-methyl-2-oxo-5-phenyl-2,3-dihydro-1*H*-1,4-benzodiazepin-3-yl]propanamide]

AG-CR1-0081-C250 250 µg
AG-CR1-0081-M001 1 mg
AG-CR1-0081-M005 5 mg

Formula: $C_{27}H_{24}F_2N_4O_3$ **MW:** 490.5 **CAS:** 209986-17-4

• Cell permeable, potent, selective, non-transition state and non-competitive γ-secretase inhibitor • Notch processing inhibitor • Only weakly affects presenilinase activity



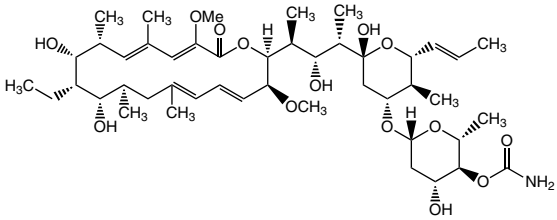
Concanamycin A [Antibiotic X4357B]

BVT-0237-C025 25 µg
BVT-0237-C100 100 µg
BVT-0237-M001 1 mg

Formula: $C_{46}H_{75}NO_{14}$ **MW:** 866.1 **CAS:** 80890-47-7

Isolated from *Streptomyces* sp.

• Antibiotic • More potent and specific H^+-ATPase inhibitor than bafilomycin A1 (Prod. No. BVT-0252) • Inhibits acidification of organelles such as lysosomes and the Golgi apparatus • Blocks cell surface expression of viral glycoproteins without affecting their synthesis • Cytotoxic • Induces nitric oxide (NO) production • Autophagy inhibitor



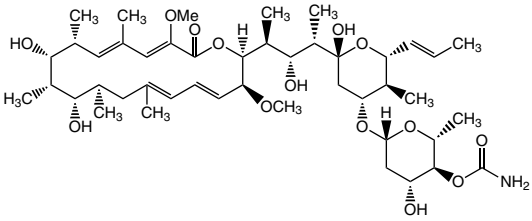
Concanamycin B [8-Deethyl-8-methylconcanamycin A]

BVT-0253-C025 25 µg
BVT-0253-C100 100 µg
BVT-0253-C500 500 µg

Formula: $C_{45}H_{73}O_{14}$ **MW:** 852.1 **CAS:** 81552-33-2

Isolated from *Streptomyces* sp.

• Antibiotic • Exhibits similar activity as concanamycin A (Prod. No. BVT-0237) and concanamycin C (Prod. No. BVT-0254) • Specific vacuolar-type H^+-ATPase inhibitor • Suppresses bone resorption • Inhibits proliferation of mouse splenic lymphocytes • Antifungal and larvicidal

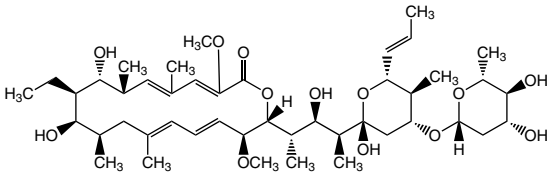


Concanamycin C

[4'-O-De(aminocarbonyl)concanamycin A]

BVT-0254-C025 25 µg
BVT-0254-C100 100 µg
BVT-0254-C500 500 µg

Formula: $C_{45}H_{74}O_{13}$ **MW:** 823.1 **CAS:** 81552-34-3



Isolated from *Streptomyces* sp.

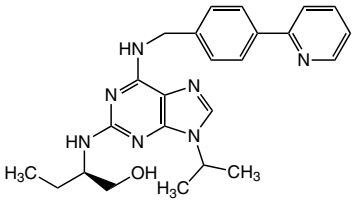
• Antibiotic • Vacuolar-type H^+-ATPase inhibitor • Anti-osteoporotic • Antiviral • Immunosuppressive • Antifungal and anti-yeast

(R)-CR8

[2-(R)-(1-Ethyl-2-hydroxyethylamino)-6-(4-(2-pyridyl)benzyl)-9-isopropylpurine]

AG-CR1-0039-M001 1 mg
AG-CR1-0039-M005 5 mg

Formula: $C_{24}H_{29}N_7O$ **MW:** 431.5 **CAS:** 294646-77-8



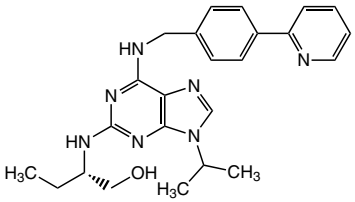
• Potent and selective cyclin-dependent kinase (CDK) 1, 2, 5, 7 and 9 inhibitor • Apoptosis inducer
• Potent GSK-3α/β (glycogen synthase kinase-3α/β) inhibitor

(S)-CR8

[2-(S)-(1-Ethyl-2-hydroxyethylamino)-6-(4-(2-pyridyl)benzyl)-9-isopropylpurine]

AG-CR1-0040-M001 1 mg
AG-CR1-0040-M005 5 mg

Formula: $C_{24}H_{29}N_7O$ **MW:** 431.5 **CAS:** 294646-77-8



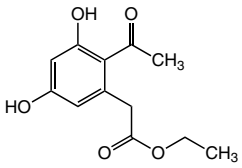
• Potent and selective cyclin-dependent kinase (CDK) 1, 2, 5, 7 and 9 inhibitor • Apoptosis inducer
• GSK-3α/β (glycogen synthase kinase-3α/β) inhibitor

Curvulin

[Ethyl 2-(2-acetyl-3,5-dihydroxyphenyl)acetate]

BVT-0097-M001 1 mg
BVT-0097-M005 5 mg

Formula: $C_{12}H_{14}O_5$ **MW:** 238.2 **CAS:** 19054-27-4



Isolated from *Curvularia* sp.

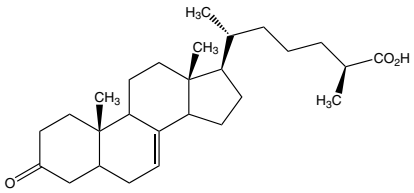
• Phytotoxin • Microtubule assembly inhibitor • Similar to curvularin

(25S)-Δ^7-Dafachronic acid

[UPF-1404]

AG-CN2-0014-C100 100 µg

Formula: $C_{27}H_{42}O_3$ **MW:** 414.6



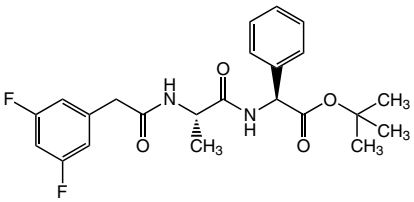
• Ligand of DAF-12 (orphan nuclear receptor) • Blocks formation of infective larvae • Regulates dauer diapause, reproductive development, fat metabolism and life span in parasitic nematodes

DAPT

[N-[N-(3,5-Difluorophenacetyl-L-alanyl)]-S-phenylglycine *tert*.butyl ester]

AG-CR1-0016-M005 5 mg
AG-CR1-0016-M025 25 mg

Formula: $C_{23}H_{26}F_2N_2O_4$ **MW:** 432.5 **CAS:** 208255-80-5

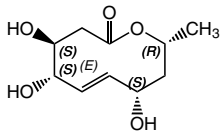


• Cell permeable γ-secretase inhibitor • Reduces Aβ levels *in vivo* • Blocks the proteolytic processing of neurotrophin receptor alike death domain protein (NRADD) • Does not inhibit persenilinase • Notch processing inhibitor • Enhances neuronal differentiation independent of sonic hedgehog (shh) signaling • CDK5 activity inhibitor • Apoptosis enhancer

Decarestrictine D [Tuckolide]

BVT-0283-M001 1 mg
BVT-0283-M005 5 mg

Formula: $C_{10}H_{16}O_5$ **MW:** 216.2 **CAS:** 127393-89-9



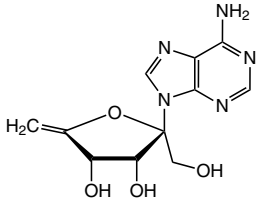
Isolated from *Penicillium* sp.

• Hypolipidemic • Cholesterol biosynthesis inhibitor

Decoyinine [Angustmycin A; U-7984; 9-(6-Deoxy-D-β-*erythro*-hex-5-en-2-ulofuranosyl)-adenine]

BVT-0030-M001 1 mg
BVT-0030-M005 5 mg

Formula: $C_{11}H_{13}N_5O_4$ **MW:** 279.3 **CAS:** 2004-04-8



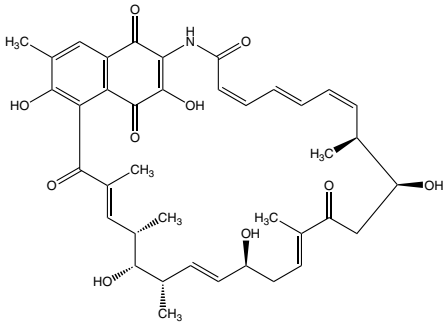
Isolated from *Streptomyces* sp. S 2113.

• Nucleoside antibiotic • Antitumor compound • Xanthosine monophosphate (XMP) aminase inhibitor • RNA synthesis inhibitor • Specific GMP synthase inhibitor • Reduces intracellular GTP levels

Diastovaricin I [30-Hydroxy-naphthomycin C]

BVT-0381-C500 500 µg
BVT-0381-M001 1 mg
BVT-0381-M005 5 mg

Formula: $C_{39}H_{45}NO_{10}$ **MW:** 687.8 **CAS:** 102281-52-7



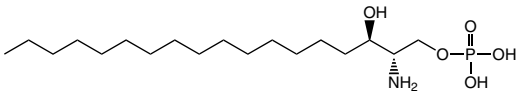
Isolated from *Streptomyces* sp. Gö 40/10.

• Antibiotic • Antibacterial • Antitumor compound

D-*erythro*-Dihydrosphingosine 1-phosphate [Dihydro-S1P; dhS1P]

AG-CR1-0005-M001 1 mg
AG-CR1-0005-M005 5 mg

Formula: $C_{18}H_{40}NO_5P$ **MW:** 381.5

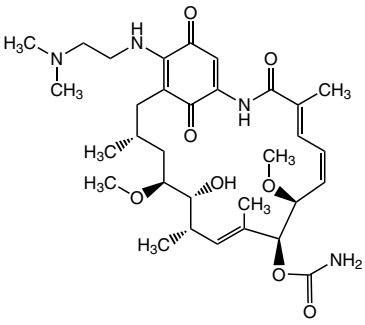


• Negative control for intracellular effects of sphingosine 1-phosphate • Ligand for sphingosine 1-phosphate (S1P/EDG) receptors • Induces chemotaxis • Antifibrotic

17-DMAG [17-[2-(Dimethylamino)ethyl]amino-17-desmethoxygeldanamycin; NSC 707545]

BVT-0255-C100 100 µg
BVT-0255-M001 1 mg

Formula: $C_{32}H_{48}N_4O_8$ **MW:** 616.8 **CAS:** 467214-20-6



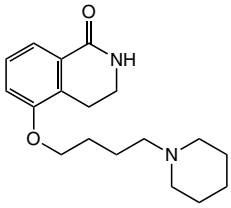
Semi-synthetic derivative from geldanamycin.

• Less toxic, more potent synthetic derivative of geldanamycin (Prod. No. BVT-0196) • Angiogenesis inhibitor • Heat shock protein 90 (HSP90) inhibitor • Apoptosis inducer • Shows higher antitumor activity than 17-AAG (Prod. No. BVT-0244)

DPQ [3,4-Dihydro-5-[4-(1-piperidinyl)butoxy]-1(2*H*)-isoquinolinone]

AG-CR1-0037-M001 1 mg
AG-CR1-0037-M005 5 mg

Formula: $C_{18}H_{26}N_2O_2$ **MW:** 302.4 **CAS:** 129075-73-6



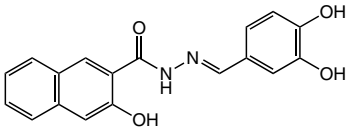
• Very potent PARP-1 inhibitor

Dynasore

[3-Hydroxy-naphthalene-2-carboxylic acid (3,4-dihydroxy-benzylidene)-hydrazide]

AG-CR1-0045-M005 5 mg
AG-CR1-0045-M025 25 mg

Formula: $C_{18}H_{14}N_2O_4 \cdot H_2O$ **MW:** 322.3 . 18.0 **CAS:** 304448-55-3



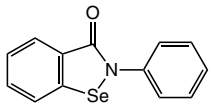
• Dynamin GTPase inhibitor • Endocytosis inhibitor • Viral infection inhibitor • Destabilizes actin filaments

Ebselen

[2-Phenyl-1,2-benzisoselenazol-3-(2*H*)-one]

AG-CR1-0031-M001 1 mg
AG-CR1-0031-M005 5 mg
AG-CR1-0031-M025 25 mg

Formula: $C_{13}H_9NOSe$ **MW:** 274.2 **CAS:** 60940-34-3



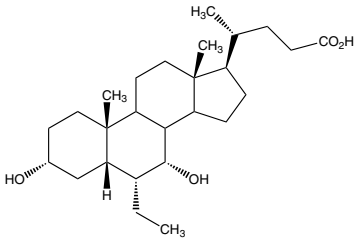
• Glutathione peroxidase mimetic • Peroxynitrite scavenger • Anti-inflammatory • Antioxidant • Protein kinase C (PKC), NADPH, lipoxygenase, COX, NOS, H^+-ATPase and NADPH oxidase inhibitor • Antifungal

6-ECDCA

[6α-Ethyl-chenodeoxycholic acid; Obeticholic acid; INT-747]

AG-CR1-3560-M005 5 mg
AG-CR1-3560-M025 25 mg

Formula: $C_{26}H_{44}O_4$ **MW:** 420.3 **CAS:** 459789-99-2



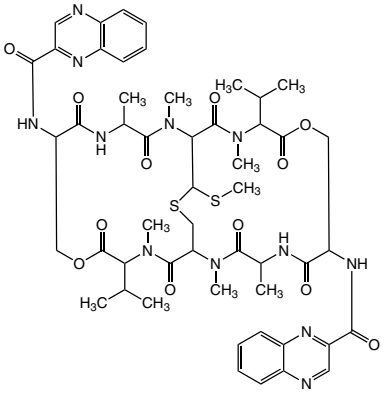
• Potent and selective FXR agonist • Apoptosis inducer • Promotes preadipocyte differentiation • Regulates adipogenesis and insulin signaling *in vivo* • Anticholeretic in rat

Echinomycin

[Quinomycin A]

BVT-0267-M001 1 mg
BVT-0267-M005 5 mg

Formula: $C_{51}H_{64}N_{12}O_{12}S_2$ **MW:** 1101.3 **CAS:** 512-64-1



Isolated from *Streptomyces echinatus* (DSM 40013).

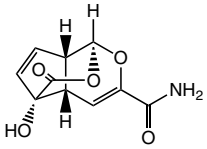
• Antibiotic • Antitumor compound • Powerful, selective inhibitor of nucleic acid synthesis *in vitro* • Potent hypoxia-inducible factor 1 (HIF-1) DNA binding activity inhibitor • Apoptosis inducer • Antibacterial, antifungal and antiviral

Echinosporin

[NSC357683; XK 213]

BVT-0006-M001 1 mg
BVT-0006-M005 5 mg

Formula: $C_{10}H_9NO_5$ **MW:** 223.2 **CAS:** 79127-35-8



Isolated from *Streptomyces* sp.

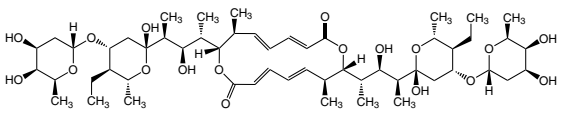
• Antibiotic • Cell cycle inhibitor at the G(2)/M phase • Antitumor compound • Apoptosis inducer

Elaiophylin

[Antibiotic 255-E; Antibiotic 5001B; Antibiotic 56-62; Antibiotic 846 I; SNA 4606-3; Gopalamicin; Salbomycin; Azalomycin B]

BVT-0185-M001 1 mg
BVT-0185-M005 5 mg

Formula: $C_{54}H_{88}O_{18}$ **MW:** 1025.3 **CAS:** 37318-06-2



Isolated from *Streptomyces* sp. MT-1.

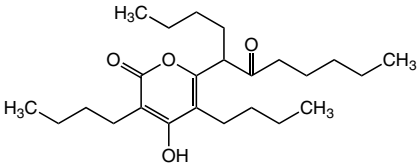
• Antibiotic • Active against Gram-positive bacteria, protozoa and tumors • Testosterone 5α-reductase inhibitor • Nitric oxide synthase (NOS) inhibitor • Immunosuppressive • Enhances the antifungal activity of rapamycin

Elasnin

[3,5-Dibutyl-4-hydroxy-6-(6-oxoundecan-5-yl)-2*H*-pyran-2-one]

BVT-0342-M001 1 mg
BVT-0342-M005 5 mg

Formula: $C_{24}H_{40}O_4$ **MW:** 392.6 **CAS:** 68112-21-0



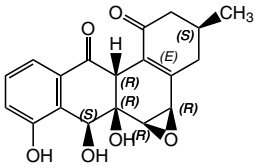
Isolated from *Streptomyces* sp.

• Inhibitor of human leukocyte elastase, different other elastases and chymotrypsin

Elmycin B

BVT-0198-M001 1 mg
BVT-0198-M005 5 mg

Formula: $C_{19}H_{18}O_6$ **MW:** 342.3 **CAS:** 128233-09-0



Isolated from *Streptomyces* sp. K20/4.

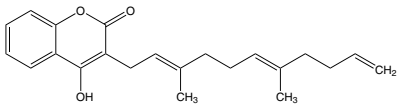
• Angucyclinone antibiotic • Antibacterial • Moderate cytotoxic

Ferulenol

[2-Hydroxy-3-[(2E,6E)-3,7,11-trimethyldodeca-2,6,10-trienyl]chromen-4-one]

AG-CN2-0011-M001 1 mg
AG-CN2-0011-M005 5 mg
AG-CN2-0011-M010 10 mg

Formula: $C_{24}H_{30}O_3$ **MW:** 366.5 **CAS:** 6805-34-1



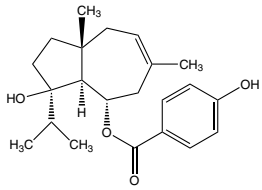
• Antitumor compound • Cytotoxic • Stimulator of tubulin polymerisation *in vitro* • Antitubercular antibiotic with potent antibacterial activity • Anticoagulant, pro-haemorrhagic compound with higher activity than warfarin • Shows hepatocyte toxicity • Disrupts mitochondrial membrane potential

Ferutinin (high purity)

[4-Oxy-6-(4-oxybenzoyloxy)dauc-8,9-en; Tefestrol]

AG-CN2-0007-M001 1 mg
AG-CN2-0007-M005 5 mg
AG-CN2-0007-M010 10 mg

Formula: $C_{22}H_{30}O_4$ **MW:** 358.5 **CAS:** 41743-44-6



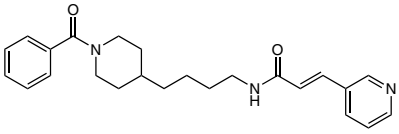
• Strong agonist for estrogen receptor (ER)α and agonist/antagonist for ERβ • Calcium ionophoretic • Apoptosis modulator • Antiproliferative • Increases NOS activity and phosphoinositides breakdown in nervous tissue • Anti-osteoporotic • Modest AChE inhibitor

FK-866

[K 22.175; APO866; WK175; N-[4-(1-Benzoyl-4-piperidinyl)butyl]-3-(3-pyridinyl)-2E-propenamide]

AG-CR1-0011-M001 1 mg
AG-CR1-0011-M005 5 mg

Formula: $C_{24}H_{29}N_3O_2$ **MW:** 391.5 **CAS:** 658084-64-1

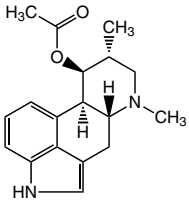


• Nampt/visfatin inhibitor • Inhibitor of NAD^+ biosynthesis • Apoptosis inducer • Autophagy inducer • Causes premature senescence • Angiogenesis inhibitor

Fumigaclavine A

BVT-0090-M001 1 mg
BVT-0090-M005 5 mg

Formula: $C_{18}H_{22}N_2O_2$ **MW:** 298.4 **CAS:** 6879-59-0



Isolated from *Aspergillus* sp.

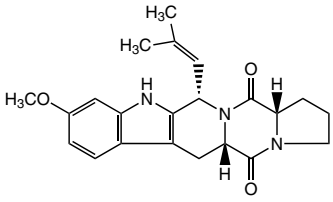
• Ergot alkaloid • Mycotoxin

Fumitremorgin C

[Tryptoquivaline]

BVT-0189-C250 250 µg

Formula: $C_{22}H_{25}N_3O_3$ **MW:** 379.5 **CAS:** 118974-02-0



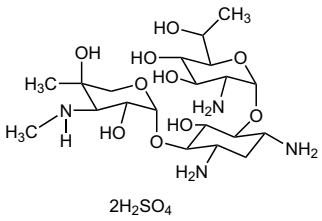
Isolated from *Aspergillus fumigatus.*

• Mycotoxin • Tremorgenic • Potent and specific inhibitor of the breast cancer resistance protein (BCRP; ABCG2) • Reverses multidrug resistance mediated by BCRP and increases cytotoxicity of several anticancer agents *in vitro*

G418 . sulfate [Geneticin; Antibiotic G418; BRN 1669188]

AG-CN2-0030-M250	250 mg
AG-CN2-0030-M500	500 mg
AG-CN2-0030-G001	1 g
AG-CN2-0030-G005	5 g

Formula: $C_{20}H_{40}N_4O_{10}$. $2H_2SO_4$ **MW:** 496.6 . 196.1 **CAS:** 108321-42-2



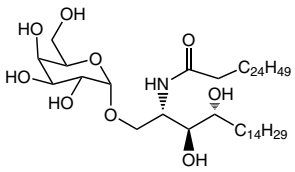
Isolated from *Micromonospora rhodorangea.*

• Antibiotic • Cytotoxic to prokaryotic and eukaryotic cells by inhibiting the protein synthesis • Apoptosis inducer • Widely employed in the selection of eukaryotic expression vectors, in combination with either aminoglycoside phosphotransferase 3' or APH II • Antiviral

α-Galactosylceramide [α-Gal-Cer; KRN7000]

AG-CN2-0013-C250	250 µg
AG-CN2-0013-M001	1 mg

Formula: $C_{26}H_{44}O_4$ **MW:** 858.3

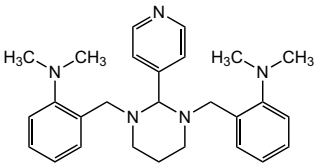


• Specific ligand of CD1d and potent stimulator of NKT cells • Potent antitumor compound • Immunostimulant • Protects against LPS-induced shock

GANT61 [NSC 136476; 2,2'-((Dihydro-2-(4-pyridinyl)-1,3(2*H*,4*H*)-pyrimidinediyl)bis(methylene))bis(N,N-dimethyl)-benzenamine]

AG-CR1-3561-M001	1 mg
AG-CR1-3561-M005	5 mg

Formula: $C_{27}H_{35}N_5$ **MW:** 429.6 **CAS:** 500579-04-4

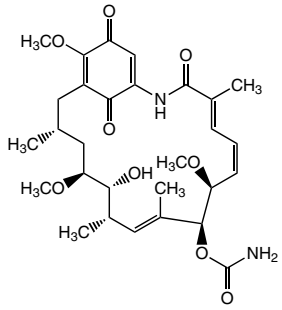


• Cell permeable GLI antagonist. Inhibits Gli1and Gli2-induced transcription • Hedgehog (Hh) signaling pathway inhibitor, downstream of SMO and SUFU • Displays antiproliferative and antitumor activity *in vitro* and *in vivo* • Apoptosis inducer

Geldanamycin [NSC122750; BRN1633093; U-29135]

BVT-0196-C100	100 µg
BVT-0196-C500	500 µg
BVT-0196-M001	1 mg
BVT-0196-M005	5 mg

Formula: $C_{29}H_{40}N_2O_9$ **MW:** 560.6 **CAS:** 30562-34-6



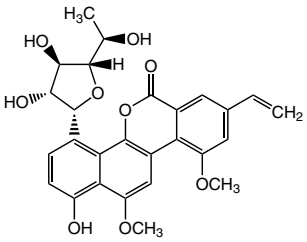
Isolated from *Streptomyces hygroscopicus.*

• Antibiotic • Potent antitumor compound • pp60src tyrosine kinase inhibitor • Inhibits *c-myc* gene expression in murine lymphoblastoma cells • Inhibits the transforming activity of abl, erbB, fps, src and yes • Binds specifically to heat shock protein 90 (HSP90) and to its endoplasmic reticulum homolog GP96 (GRP94) • Destabilizes several oncogene and proto-oncogene products • Nuclear hormone receptor family inhibitor

Gilvocarcin V [Anandimycin A; Toromycin A; NSC 338943; DC-38-V; Antibiotic 1072B]

BVT-0256-C100	100 µg
BVT-0256-C250	250 µg
BVT-0256-M001	1 mg

Formula: $C_{10}H_{10}O_3$ **MW:** 178.2 **CAS:** 14153-17-4



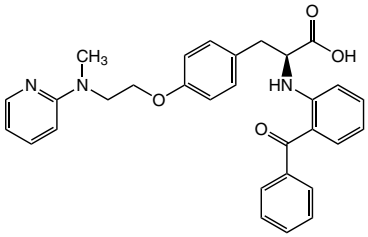
Isolated from *Streptomyces* sp. Gö 3592.

• Antitumor compound • Weakly antibacterial and antifungal • Mediates a unique cross-linking reaction between DNA and histone H3 by photoactivation

GW1929 [*N*-(2-Benzoylphenyl)-L-tyrosine PPARγ Agonist; (2S)-((2-Benzoylphenyl)amino-3-[4-[2-(methylpyridin-2-ylamino)ethoxy]phenyl]propionic acid]

AG-CR1-0116-M001	1 mg
AG-CR1-0116-M005	5 mg
AG-CR1-0116-M025	25 mg

Formula: $C_{30}H_{29}N_3O_4$ **MW:** 495.6 **CAS:** 196808-24-9



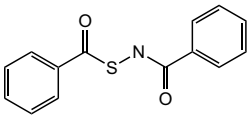
• Potent and subtype-selective (>1'000-fold) PPARγ agonist • Angiogenesis inhibitor • Apoptosis inhibitor • Anti-inflammatory • Anti-hyperglycemic and anti-hyperlipidemic agent • Antidiabetic

H2S Donor 5a

[N-(Benzoylthio)benzamide]

AG-CR1-3510-M005 5 mg
AG-CR1-3510-M025 25 mg

Formula: $C_{14}H_{11}NO_2S$ **MW:** 257.3 **CAS:** 134861-13-5



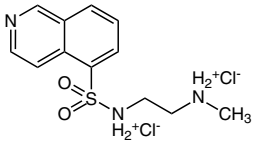
• Cysteine-activated hydrogen sulfide (H2S) donor • Regulates the rate of H2S generation

H-8 . 2HCl

[N-[2-(Methylamino)ethyl]-5-isoquinolinesulfonamide]

AG-CR1-0001-M010 10 mg
AG-CR1-0001-M050 50 mg

Formula: $C_{12}H_{15}N_3O_2S$. 2HCl **MW:** 265.3 . 73.0 **CAS:** 113276-94-1



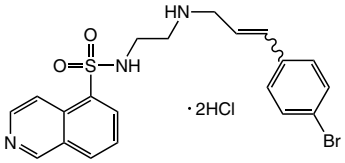
• Potent cAMP- and cGMP-dependent protein kinase (PKA and PKG) inhibitor • Myosin light chain kinase (MLCK) inhibitor

H-89 . 2HCl

[N-[2-(p-Bromocinnamylamino)ethyl]-5-isoquinolinesulfonamide]

AG-CR1-0002-M001 1 mg
AG-CR1-0002-M005 5 mg
AG-CR1-0002-M025 25 mg

Formula: $C_{20}H_{20}BrN_3O_2S$. 2HCl **MW:** 446.4 . 73.0 **CAS:** 127243-85-0



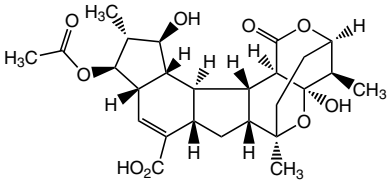
• Cell permeable potent and selective cAMP- and cGMP-dependent protein kinase (PKA and PKG) inhibitor • Protein kinase Cμ (PKCμ) inhibitor • Ca^{2+}/calmodulin-dependent protein kinase II inhibitor • Casein kinase I inhibitor • Myosin light chain kinase (MLCK) inhibitor • Apoptosis enhancer • Rho kinase inhibitor • Cell proliferation inhibitor

Hexacyclinic acid

[3-(1,2-Epoxypropyl)-5,6-dihydro-5-hydroxy-6-methyl-2*H*-pyran-2-one]

BVT-0261-M001 1 mg
BVT-0261-M005 5 mg

Formula: $C_{26}H_{34}O_9$ **MW:** 490.5 **CAS:** 309757-85-5



Isolated from *Streptomyces cellulosae* ssp. *Griseorubiginosus* S1013.

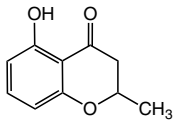
• Antibiotic • Antitumor compound • Weakly cytotoxic

5-Hydroxy-2-methyl-4-chromanone

[5-Hydroxy-2-methylchroman-4-one]

BVT-0322-C500 500 µg
BVT-0322-M001 1 mg

Formula: $C_{10}H_{10}O_3$ **MW:** 178.2 **CAS:** 14153-17-4



Isolated from *Nodulisporium* sp.

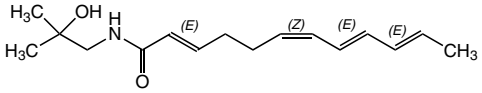
• Antifungal and phytotoxic • Inhibits the growth of *Saccharomyces cerevisiae* and the formation of soybean callus

Hydroxy α-sanshool

[(2E,6Z,8E,10E)-N-(2-Hydroxy-2-methylpropyl)dodeca-2,6,8,10-tetraenamide]

AG-CN2-0005-M001 1 mg
AG-CN2-0005-5001 5 x 1 mg

Formula: $C_{16}H_{25}NO_2$ **MW:** 263.4 **CAS:** 83883-10-7



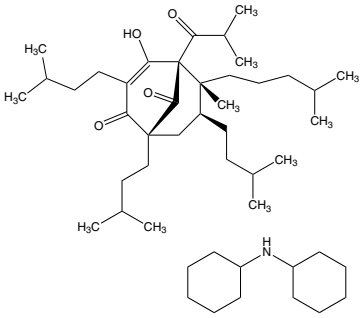
Isolated from *Xanthoxylum* sp.

• TRPV1 and TRPA1 agonist • Inhibitor of the two-pore domain potassium channels KCNK3 (TASK-1), KCNK9 (TASK-3) and KCNK18 (TRESK) • Modulator of the sensory neuron function • Tool for discriminating functional subtypes of Abeta and C fibre nerve afferents and identifying the cellular and molecular mechanisms of paresthesia

Hyperforin . DCHA

AG-CN2-0008-C500 500 µg
AG-CN2-0008-M001 1 mg

Formula: $C_{35}H_{51}O_4$. $C_{12}H_{24}N$ **MW:** 535.8 . 182.3 **CAS:** 11079-53-1



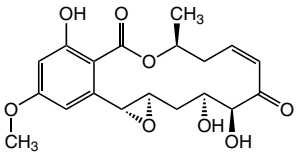
Isolated from St. John's wort *(Hypericum perforatum)*.

• Key constituent of St. John's wort • Antibacterial, anti-malarial, anti-inflammatory, anticancer and anti-angiogenic • Antidepressant and anxiolytic compound • Specific activator of TRPC6 channels • Inhibits the re-uptake of neurotransmitters in synapses (serotonin, norepinephrine, dopamine, GABA, glutamate) • Activator of the pregnane X receptor (PXR) • Regulates expression of the cytochrome P450 CYP3A4 and CYP2C9 and hepatic drugs metabolism • Potential anti-Alzheimer compound • Potent SIRT1 (sirtuin 1) and SIRT2 (sirtuin 2) inhibitor

Hypothemycin

BVT-0067-C250 250 µg
BVT-0067-M001 1 mg

Formula: $C_{19}H_{22}O_8$ **MW:** 378.4 **CAS:** 76958-67-3



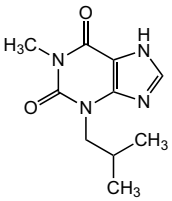
Isolated from *Phoma* sp.

• Antifungal • Cytotoxic • Inhibits proliferation of mouse and human T cells • Modulates production of cytokines during T cell activation • Facilitates the ubiquitinylation process of cyclin D1 • Potent and selective threonine/tyrosine-specific kinase, MEK and other protein kinases inhibitor

IBMX [3-Isobutyl 1-methylxanthine; NSC 165960; EINECS 249-259-3]

AG-CR1-3512-M500 500 mg
AG-CR1-3512-G001 1 g

Formula: $C_{10}H_{14}N_4O_2$ **MW:** 222.3 **CAS:** 28822-58-4

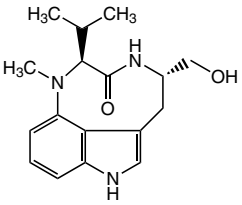


• Cell permeable, competitive, non-specific cAMP and cGMP phosphodiesterase inhibitor • Increases cAMP levels that activate PKA, leading to decreased proliferation and increased differentiation • Enhances differentiation of 3T3-L1 cells • Non-selective adenosine receptor antagonist • Inhibits Ca^{2+} ion channels • Activates TNF-α • Adipogenic • Activates leukotriene synthesis • Reduces inflammation and innate immunity • Apoptosis inducer

(-)-Indolactam V

AG-CR1-0041-C300 300 µg
AG-CR1-0041-M001 1 mg

Formula: $C_{17}H_{23}N_3O_2$ **MW:** 301.4 **CAS:** 90365-57-4

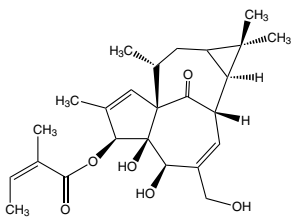


• Tumor promoter • Protein kinase C (PKC) inducer • Mitogenesis activator • Differentiation inducer

Ingenol-3-angelate [PEP005; I3A]

AG-CN2-0012-M001 1 mg
AG-CN2-0012-M005 5 mg

Formula: $C_{25}H_{34}O_6$ **MW:** 430.5 **CAS:** 75567-37-2

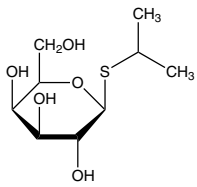


Isolated from *Euphorbia peplus L.*

• Specific protein kinase C (PKC) activator • Selective activator of PKC isoforms, like PKCθ in T cells • Antiproliferative • Proapoptotic (necrotic) • Immunostimulant • Chemotherapeutic • Anticancer compound • Antileukemic

IPTG (animal-free, dioxane-free) [Isopropyl-β-D-thiogalactoside]

AG-CC1-0002-G001 1 g
AG-CC1-0002-G005 5 g
AG-CC1-0002-G025 25 g

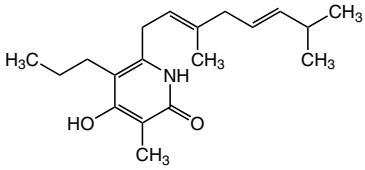


Formula: $C_9H_{18}O_5S$ **MW:** 238.3 **CAS:** 367-93-1

• Molecular biology reagent • β-Galactosidase activity inducer in several bacteria, by binding and inhibiting the lac repressor • Used in gene cloning together with X-Gal (Prod. No. AG-CC1-0003), in a technique called blue/white screening • Distinguishes between recombinant and non-recombinant plasmids carrying the β-galactosidase gene • Stimulates β-galactosidase in cellular systems in which dioxane would disrupt normal cell function

Iromycin A [6-((2E,5E)-3,7-Dimethylocta-2,5-dien-1-yl)-4-hydroxy-3-methyl-5-propylpyridin-2(1*H*)-one]

BVT-0262-C500 500 µg
BVT-0262-M001 1 mg
BVT-0262-M005 5 mg



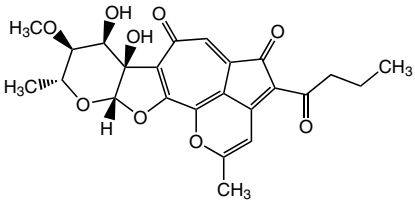
Formula: $C_{19}H_{29}NO_2$ **MW:** 303.4 **CAS:** 213137-53-2

Isolated from *Streptomyces bottropensis*.

• Pyridone metabolite • Nitric oxide synthase (NOS) inhibitor, showing selectivity for eNOS (NOS III) versus nNOS (NOS I) • Thaxtomin biosynthesis inhibitor • Mitochondrial electron transport chain inhibitor

Isatropolone A

BVT-0080-M001 1 mg
BVT-0080-M005 5 mg



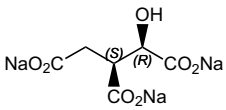
Formula: $C_{24}H_{24}O_9$ **MW:** 456.4

Isolated from *Streptomyces* sp. Gö66.

• Cytostatic • Cytotoxic

Ds(+)-threo-Isocitric acid . 3Na

AG-CR1-3505-M025 25 mg
AG-CR1-3505-M100 100 mg

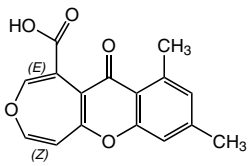


Formula: $C_6H_5O_7$. 3Na **MW:** 189.1 . 69.0 **CAS:** 903507-52-8

• Anticoagulant that retains platelets functionality • Buffers Ca^{2+} activity in physiological range (~1mM) • Bypasses the metabolic blockade • Stabilizes the iron-sulfur cluster and is predicted to restore aconitase to its "high iron" conformation • Binds IDH (isocitrate dehydrogenase), an excellent candidate for participating, along with aconitase and PKC, in an iron restriction signalosome • Contributes to heme biosynthesis

Isofusidienol A

BVT-0280-M001 1 mg
BVT-0280-M005 5 mg



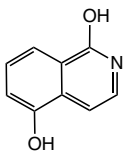
Formula: $C_{16}H_{12}O_6$ **MW:** 300.3 **CAS:** 1032392-18-9

Isolated from *Chalara* sp.

• Antibiotic • Chromone derivative • Antifungal and antibacterial

1,5-Isoquinolinediol [5-Hydroxy-1(2*H*)-isoquinolinone; 1,5-Dihydroxyisoquinoline]

AG-CR1-0024-M005 5 mg
AG-CR1-0024-M025 25 mg
AG-CR1-0024-M100 100 mg



Formula: $C_9H_7NO_2$ **MW:** 161.2 **CAS:** 5154-02-9

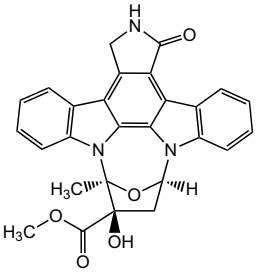
• PARP-1 inhibitor • Neuroprotectant • Blocks nitric oxide-induced neuronal toxicity • Potent iNOS (NOS II) inhibitor

K-252a

[SF 2370; Antibiotic K 252a; Antibiotic SF 2370]

AG-CN2-0019-C100 100 µg
AG-CN2-0019-M001 1 mg

Formula: $C_{27}H_{21}N_3O_5$ **MW:** 467.5 **CAS:** 97161-97-2
99533-80-9



Isolated from *Nonomuraea longicatena chiba.*

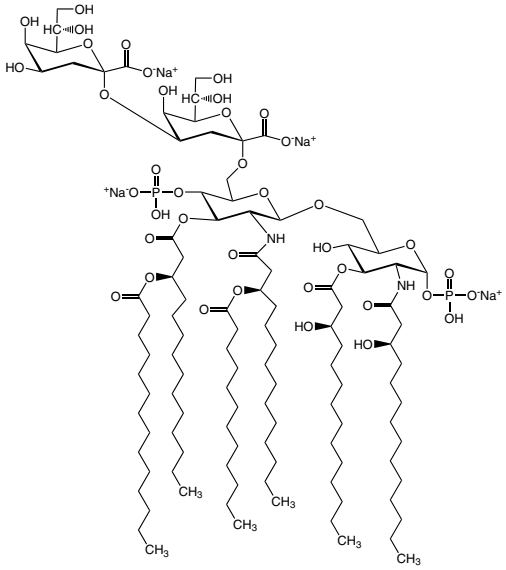
• Antibiotic • PKC, PKA and PKG inhibitor • Neurotropic • Highly potent cell permeable CaM kinase and phosphorylase inhibitor • Tyrosine protein kinase inhibitor of the TRK family • Antiproliferative • Apoptosis inducer • Cell cycle arrest inducer

Kdo2-Lipid A (ready-to-use)

[(3-Deoxy-D-manno-octulosonic acid)$_2$-Lipid A]

AG-CU1-0001-M001 1 mg

Formula: $C_{110}H_{198}N_2Na_4O_{39}P_2$ **MW:** 2326.7



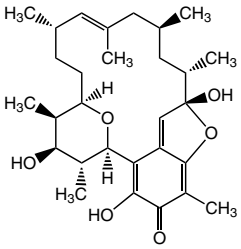
• Defined substructure of the Re mutant of lipopolysaccharide (LPS) • Endotoxin activity equal to Re LPS • Strong activator (<10ng/ml) of macrophages via toll-like receptor 4 (TLR4) • Does not activate TLR2 or other TLRs as determined with splenocytes and macrophages from TLR4 deficient mice by IL-6 ELISA • Facilitates the structural analysis of its complexes with signaling receptors, such as TLR4/MD2 and CD14 • Induces sphingolipid biosynthesis, which is essential for induction of autophagy

Kendomycin

[(-)-TAN 2162]

BVT-0001-C100 100 µg
BVT-0001-C500 500 µg
BVT-0001-MM25 2.5 mg

Formula: $C_{29}H_{42}O_6$ **MW:** 486.6 **CAS:** 183202-73-5



Isolated from *Streptomyces violaceoruber.*

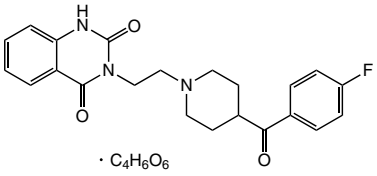
• Antibiotic • Potent endothelin receptor antagonist • Anti-osteoporotic • Antibacterial • Cytotoxic • Mediates its cytotoxic effects, at least in part, through proteasome inhibition

Ketanserin . tartrate

[3-[2-[4-(4-Fluorobenzoyl)-1-piperdinyl)ethyl]-2,4(1*H*, 3*H*)-quinazolinedione tartrate]

AG-CR1-0014-M010 10 mg
AG-CR1-0014-M050 50 mg

Formula: $C_{22}H_{22}FN_3O_3 \cdot C_4H_6O_6$ **MW:** 395.4 . 150.1 **CAS:** 83846-83-7



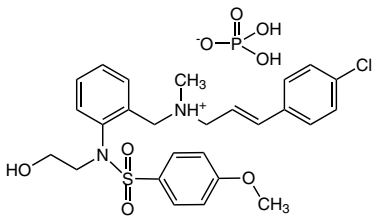
• Selective 5-HT$_{2A}$ serotonin receptor antagonist • ATP-sensitive potassium channel inhibitor • hERG potassium channel blocker

KN-93 (water soluble)

[KN-93 . hydrogen phosphate]

AG-CR1-0065-M001 1 mg
AG-CR1-0065-M005 5 mg
AG-CR1-0065-M025 25 mg

Formula: $C_{26}H_{29}ClN_2O_4S \cdot H_3PO_4$ **MW:** 501.0 . 98.0

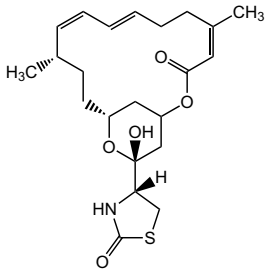


• Selective Ca^{2+}/calmodulin-dependent protein kinase II inhibitor • Insulin release inhibitor • G1 cell cycle arrest inducer • Apoptosis inducer • Ion channel inhibitor • ROS inducer • Androgen receptor inhibitor

Latrunculin A [LAT-A; NSC 613011]

AG-CN2-0027-C100 100 µg
AG-CN2-0027-C500 500 µg

Formula: $C_{22}H_{31}NO_5S$ **MW:** 421.6 **CAS:** 76343-93-6



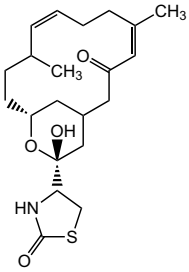
Isolated from *Latrunculia magnifica*.

• Cell permeable marine toxin • Disrupts microfilament-mediated processes • Actin polymerization inhibitor *in vitro* and *in vivo* by the formation of a 1:1 complex with monomeric G-actin • Potent phagocytosis inhibitor • Anticancer compound • Suppresses hypoxia-induced HIF-1 activation in tumor cells • Inhibits tumor cell invasion • Acts via a different mechanism than cytochalasins

Latrunculin B [LAT-B; NSC 339663]

AG-CN2-0031-M001 1 mg

Formula: $C_{20}H_{29}NO_5S$ **MW:** 395.5 **CAS:** 76343-94-7



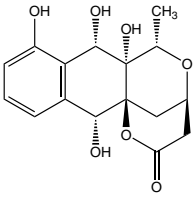
Isolated from *Latrunculia magnifica*.

• Cell permeable marine toxin • Disrupts microfilament-mediated processes • Actin polymerization inhibitor *in vitro* and *in vivo* by the formation of a 1:1 complex with monomeric G-actin • Less potent than Latrunculin A (Prod. No. AG-CN2-0027). May have fewer unwanted effects than Latrunculin A and may be preferred for short-term studies • Acts via a different mechanism than cytochalasins

Luisol A

BVT-0212-M001 1 mg
BVT-0212-M005 5 mg

Formula: $C_{16}H_{18}O_7$ **MW:** 322.3 **CAS:** 225110-59-8



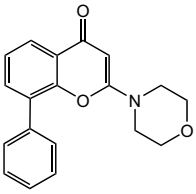
Isolated from *Streptomyces* sp.

• Weak cytotoxic activity against different tumor cell lines • Antiparasitic

LY-294,002 [2-(4-Morpholinyl)-8-phenyl-4*H*-1-benzopyran-4-one]

AG-CR1-0108-M001 1 mg
AG-CR1-0108-M005 5 mg
AG-CR1-0108-M025 25 mg

Formula: $C_{19}H_{17}NO_3$ **MW:** 307.4 **CAS:** 154447-36-6

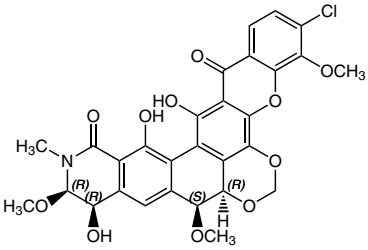


• Potent, cell permeable, highly specific PI(3)K (phosphoinositide 3-kinase) inhibitor • Acts on the ATP-binding site of the enzyme • Antagonizes P-glycoprotein-mediated multidrug resistance • Blocks Akt phosphorylation • Pim-1 kinase inhibitor

Lysolipin I

BVT-0037-C500 500 µg
BVT-0037-M001 1 mg

Formula: $C_{29}H_{24}ClNO_{11}$ **MW:** 597.9 **CAS:** 59113-57-4



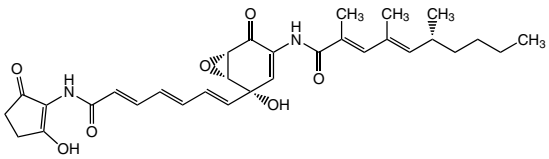
Isolated from *Streptomyces violaceoniger*.

• Antibiotic • Glycopeptide synthesis inhibitor • Antibacterial, antifungal and anti-coccidial • Cytotoxic

Manumycin A

BVT-0091-M001 1 mg
BVT-0091-M005 5 mg
BVT-0091-M010 10 mg

Formula: $C_{31}H_{38}N_2O_7$ **MW:** 550.6 **CAS:** 52665-74-4



Isolated from *Streptomyces parvulus*.

• Antibiotic • Potent, selective and competitive cell permeable rasfarnesyltransferase inhibitor • Does not affect geranylgeranyltransferase • Inhibition is competitive with respect to farnesyl pyrophosphate and non-competitive with respect to Ras • Neutral sphingomyelinase inhibitor • Blocks insulin-induced MAP kinase activation in rat cardiac myocytes

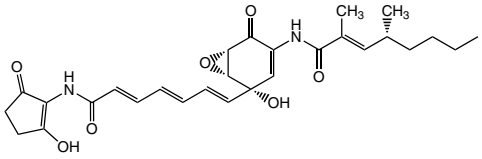
Manumycin B [UCF1A; N98-1272A]

BVT-0264-M001 1 mg
BVT-0264-M005 5 mg

Formula: $C_{28}H_{34}N_2O_7$ **MW:** 510.6 **CAS:** 139023-58-8

Isolated from *Streptomyces parvulus.*

• Antibiotic • Antibacterial. Active against Gram-positive bacteria • Ras farnesyl transferase inhibitor • Apoptosis (caspase-1) inhibitor • AChE inhibitor



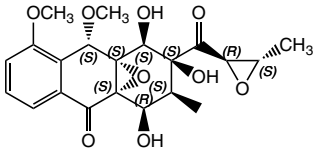
Mensacarcin

BVT-0028-M001 1 mg
BVT-0028-M005 5 mg

Formula: $C_{21}H_{24}O_9$ **MW:** 420.4 **CAS:** 808750-39-2

Isolated from *Streptomyces bottropensis.*

• Antibiotic • Antitumor compound • Cytotoxic

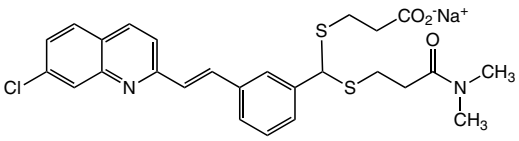


MK-571 . Na

AG-CR1-0021-M005 5 mg
AG-CR1-0021-M025 25 mg

Formula: $C_{26}H_{26}ClN_2O_3S_2$. Na **MW:** 514.1 . 23.0 **CAS:** 115104-28-4

• Selective leukotriene LTD4 receptor antagonist • Potent MRP1 inhibitor • Antinociceptive



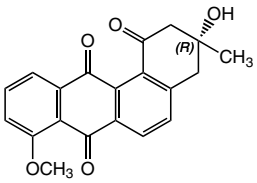
MM 47755 [6-Desoxy-8-O-methylrabelomycin]

BVT-0282-M001 1 mg
BVT-0282-M005 5 mg

Formula: $C_{20}H_{16}O_5$ **MW:** 336.3 **CAS:** 117620-87-8

Isolated from *Streptomyces* sp. Gö 40/14.

• Antibiotic • Angucyclinone • Antibacterial and antifungal

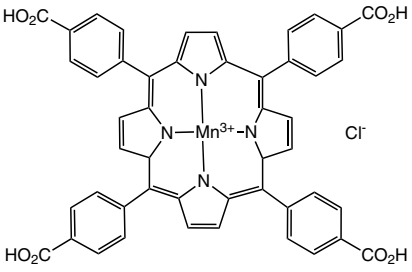


MnTBAP chloride [Manganese (III) tetrakis (4-benzoic acid)porphyrin chloride]

AG-CR1-0133-M010 10 mg
AG-CR1-0133-M050 50 mg

Formula: $C_{48}H_{28}MnN_4O_8Cl$ **MW:** 879.2

• Cell permeable superoxide dismutase (SOD) mimetic • Potent inhibitor of peroxynitrite-induced oxidative reactions (peroxynitrite scavenger), but not a scavenger of nitric oxide (NO) • Neuronal apoptosis inhibitor • Protects T cells from superoxide generation, caspase-dependent DNA loss and cell death • Lipopolysaccharide-induced TNF-α production inhibitor

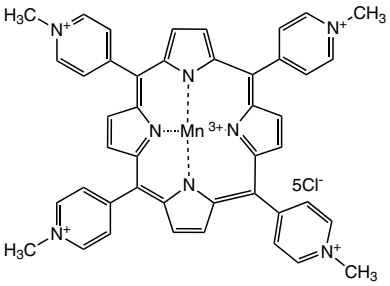


MnTMPyP . pentachloride [Manganese (III) tetrakis (1-methyl-4-pyridyl)porphyrin]

AG-CR1-0026-M010 10 mg
AG-CR1-0026-M050 50 mg

Formula: $C_{44}H_{36}Cl_5MnN_8$ **MW:** 909.0

• Cell permeable superoxide dismutase (SOD) mimetic • Peroxynitrite scavenger • Displays a protective effect against H_2O_2 mediated injury • Neuroprotective • Oxidative stress inhibitor • Apoptosis inhibitor • Reduces inflammation

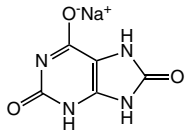


Monosodium urate (crystals) & (ready-to-use) [MSU; Uric acid]

AG-CR1-3950-M002 2 mg (crystals)
AG-CR1-3951-M010 10 mg (ready-to-use solution)

Formula: $C_5H_3N_4O_3$. Na **MW:** 167.1 . 23.0 **CAS:** 1198-77-2

• NLRP3/NALP3 inflammasome stimulator • Activates IL-1β and IL-18

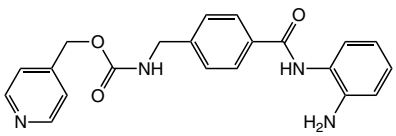


MS-275 [MS-27-275; N-(2-Aminophenyl)-4-[N-(pyridine-3-ylmethoxy-carbonyl)aminomethyl]benzamide]

AG-CR1-0032-M001 1 mg
AG-CR1-0032-M005 5 mg
AG-CR1-0032-M025 25 mg

Formula: $C_{21}H_{20}N_4O_3$ **MW:** 376.4 **CAS:** 209783-80-2

• HDAC 1 inhibitor • Antitumor compound • Antiproliferative • TGF-β type II receptor inducer • Apoptosis inducer • Anti-inflammatory • Angiogenesis inhibitor

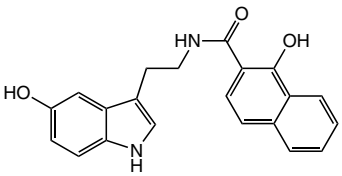


MS-1020 [1-Hydroxy-N-(2-(5-hydroxy-1*H*-indol-3-yl)ethyl)-2-naphthamide]

AG-CR1-3501-M001 1 mg

Formula: $C_{21}H_{18}N_2O_3$ **MW:** 346.4

• Selective JAK3 inhibitor • Blocks STAT signaling • Inducer of apoptosis

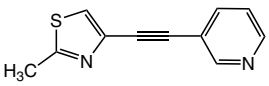


MTEP [3-[(2-Methyl-1,3-thiazol-4-yl)ethynyl]pyridine]

AG-CR1-0022-M005 5 mg
AG-CR1-0022-M025 25 mg

Formula: $C_{11}H_8N_2S$ **MW:** 200.3 **CAS:** 329205-68-7

• Potent and selective antagonist for mGluR5 • 5-fold higher anxiolytic activity than MPEP • Antidepressant • Neuroprotective



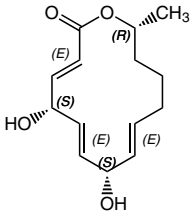
Mutolide [(3E,5S,6E,8S,9E,14R)-5,8-Dihydroxy-14-methyloxa-cyclotetradeca-3,6,9-trien-2-one]

BVT-0070-M001 1 mg
BVT-0070-M005 5 mg

Formula: $C_{14}H_{20}O_4$ **MW:** 252.3 **CAS:** 277749-34-5

Isolated from *Sphaeropsidales* sp.

• Antibiotic • Antibacterial • Phytotoxic



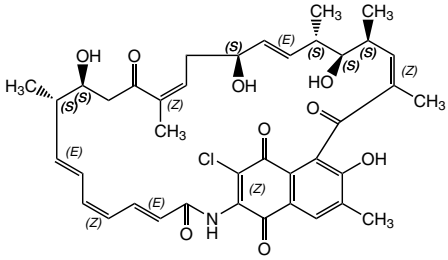
Naphthomycin B [2-Demethylnaphthomycin A]

BVT-0265-M001 1 mg

Formula: $C_{39}H_{44}ClNO_9$ **MW:** 706.2 **CAS:** 86825-88-9

Isolated from *Streptomyces* sp. Gö 40/14.

• Ansamycin antibiotic • Antibacterial and antifungal



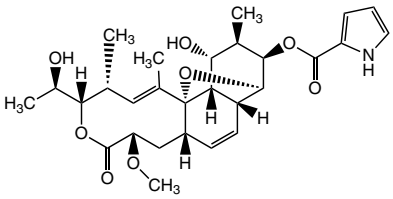
Nargenicin A1 [CP-47,444; CS682]

BVT-0204-M001 1 mg
BVT-0204-M005 5 mg

Formula: $C_{28}H_{37}NO_8$ **MW:** 515.6 **CAS:** 70695-02-2

Isolated from *Actinomyces* sp. Gö301.

• Antibiotic against Gram-positive bacteria, particularly *Staphylococcus* and *Clostridia* • More effective against multi-resistant strains (MRSA) than erythromycin and vancomycin • Inhibits cell proliferation • Displays low cytotoxicity compared to erythromycin and spiramycin

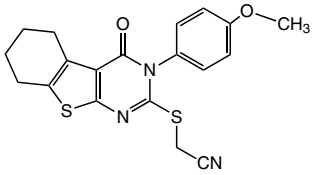


Necrostatin-5 [Nec-5]

AG-CR1-0049-M005 5 mg
AG-CR1-0049-M025 25 mg

Formula: $C_{19}H_{17}N_3O_2S_2$ **MW:** 383.5 **CAS:** 337349-54-9

• Necroptosis inhibitor • Indirect RIP1 kinase inhibitor

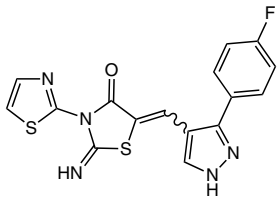


Necrostatin-7 [Nec-7]

AG-CR1-0054-M005 5 mg
AG-CR1-0054-M025 25 mg

Formula: $C_{16}H_{10}FN_5OS_2$ **MW:** 371.4

• Necroptosis inhibitor • Does not inhibit RIP1 kinase

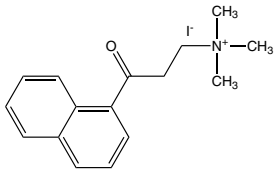


α-NETA [2-(α-Naphthoyl)ethyltrimethylammonium iodide]

AG-CR1-0151-M005 5 mg
AG-CR1-0151-M025 25 mg

Formula: $C_{16}H_{20}INO$ **MW:** 369.2 **CAS:** 31059-54-8

• Potent fluorescent inhibitor of choline acetyltransferase



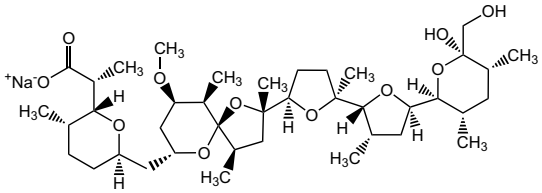
Nigericin . Na [Antibiotic K 178; Helexin C; Polyetherin A; BRN 1696755; Azalomycin M; Antibiotic X-464]

AG-CN2-0020-M005 5 mg
AG-CN2-0020-M025 25 mg

Formula: $C_{40}H_{67}O_{11}$. Na **MW:** 724.0 . 23.0 **CAS:** 28643-80-3

Isolated from *Streptomyces hygroscopicus.*

• Antibiotic • High affinity ionophore for monovalent cations such as H^+, K^+, Na^+, Pb^{2+} • Antibacterial (Gram positive), antifungal, antitumor and antiviral • Disrupts membrane potential and Golgi apparatus in mitochondria • NLRP3/NALP3 activator

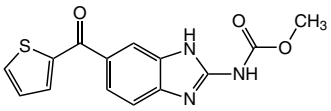


Nocodazole [R17934; Methyl[5-(2-thienylcarbonyl)-1*H*-benzimidazol-2-yl]carbamate]

AG-CR1-0019-M005 5 mg
AG-CR1-0019-M010 10 mg
AG-CR1-0019-M025 25 mg
AG-CR1-0019-M050 50 mg

Formula: $C_{14}H_{11}N_3O_3S$ **MW:** 301.3 **CAS:** 31430-18-9

• Microtubule inhibitor • Antitumor compound • Mitosis inhibitor • Arrests the cell cycle at G2/M phase • Promotes tubulin depolymerization • Induces fragmentation of the Golgi complex • Inhibits the T cell antigen receptor • Stimulates the intrinsic GTPase activity of tubulin • Activates the JNK/SAPK signaling pathway • Apoptosis inducer

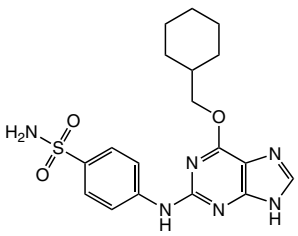


NU6102 [O^6-Cyclohexylmethyl-2-(4-sulfamoylanilino)purine]

AG-CR1-0020-M001 1 mg
AG-CR1-0020-M005 5 mg

Formula: $C_{18}H_{22}N_6O_3S$ **MW:** 402.5

• Potent CDK1/cyclin B and CDK2/cyclin A3 inhibitor • 1'000-fold more potent than NU2058 • Inhibits cell growth

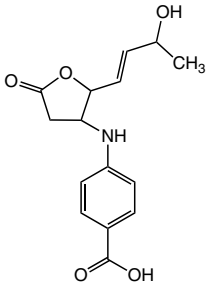


Obscurolide A1

[(E)-4-((2-(3-Hydroxybut-1-en-1-yl)-5-oxotetra-hydrofuran-3-yl)amino)benzoic acid]

BVT-0287-M001 1 mg
BVT-0287-M005 5 mg

Formula: $C_{15}H_{17}NO_5$ **MW:** 291.3 **CAS:** 144397-99-9



Isolated from *Streptomyces viridochromogenes.*

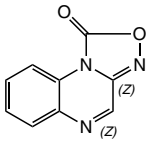
• Weak phosphodiesterase inhibitor

ODQ

[1*H*-[1,2,4]Oxadiazole[4,3-a]quinoxalin-1-one]

AG-CR1-3500-M010 10 mg
AG-CR1-3500-M050 50 mg

Formula: $C_9H_5N_3O_2$ **MW:** 187.2 **CAS:** 41443-28-1



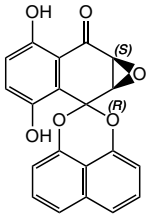
• Potent and highly selective, irreversible inhibitor of soluble guanylyl cyclase (sGC). The binding is competitive with nitric oxide (NO) • Apoptosis inhibitor

Palmarumycin C3

[(1a'R,7a'S)-3',6'-Dihydroxy-1a'H-spiro[naphtho[1,8-de][1,3]dioxine-2,2'-naphtho[2,3-b]oxiren]-7'(7a'H)-one]

BVT-0078-M001 1 mg
BVT-0078-M005 5 mg

Formula: $C_{20}H_{12}O_6$ **MW:** 348.3 **CAS:** 159934-11-9



Isolated from *Sphaeropsidales* sp.

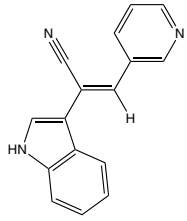
• Rasfarnesyltransferase inhibitor • Antifungal, antibacterial and herbicidal

Paprotrain

[(Z)-α-(3-Pyridinylmethylene)-1*H*-indole-3-acetonitrile]

AG-CR1-3504-M001 1 mg

Formula: $C_{16}H_{11}N_3$ **MW:** 245.3 **CAS:** 57046-73-8

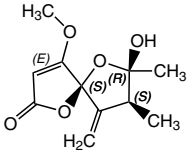


• Cell permeable kinesin-specific MKLP-2 (mitotic kinesin-like protein 2) inhibitor

Papyracillic acid A

BVT-0308-C500 500 µg
BVT-0308-M001 1 mg

Formula: $C_{11}H_{14}O_5$ **MW:** 226.2 **CAS:** 960148-59-8



Isolated from *Lachnum papyraceum* and a *Microsphaeropsis* sp.

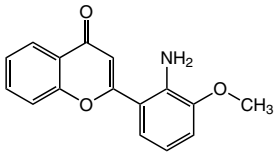
• Antibiotic • Exists in an equilibrium of diastereomers

PD 98,059

[2'-Amino-3'-methoxyflavone]

AG-CR1-0118-M001 1 mg
AG-CR1-0118-M005 5 mg
AG-CR1-0118-M010 10 mg
AG-CR1-0118-M050 50 mg

Formula: $C_{16}H_{13}NO_3$ **MW:** 267.3 **CAS:** 167869-21-8

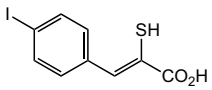


• Highly selective, reversible and cell permeable MEK (MAP kinase kinase) inhibitor • Blocks the phosphorylation and activation of the MAP kinase pathway • T cell activation inhibitor • Inhibits cell growth and cell proliferation of several cancer cells

PD 150,606 [3-(4-Iodophenyl)-2-mercapto-(Z)-2-propenoic acid]

AG-CR1-0066-M005 5 mg
AG-CR1-0066-M025 25 mg

Formula: $C_9H_7IO_2S$ **MW:** 306.1 **CAS:** 179528-45-1

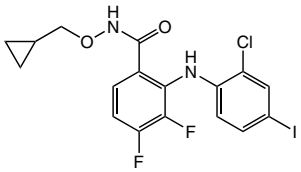


• Cell permeable and selective calpain inhibitor. Interacts with the calcium-binding domain of calpain • Neuroprotective • Ca^{2+}-permeable AMPA receptor inhibitor • Apoptosis inhibitor

PD 184,352 [CI-1040; 2-(2-Chloro-4-iodo-phenylamino)-N-cyclopropylmethoxy-3,4-difluorobenzamide]

AG-CR1-0029-M001 1 mg
AG-CR1-0029-M005 5 mg

Formula: $C_{17}H_{14}ClF_2IN_2O_2$ **MW:** 478.7 **CAS:** 212631-79-3

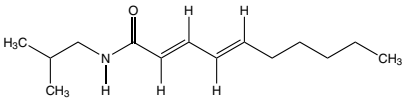


• MEK (MAPKK) inhibitor • Potent and selective MAPK (ERK kinase 1; MEK1) activation inhibitor • Antiproliferative • Causes cell-cycle arrest in G1 phase • Tumor suppressor • Apoptosis inducer

Pellitorine [(2E,4E)-N-(2-Methylpropyl)-2,4-decadienamide]

AG-CN2-0009-M001 1 mg
AG-CN2-0009-M005 5 mg

Formula: $C_{14}H_{25}NO$ **MW:** 223.4 **CAS:** 18836-52-7



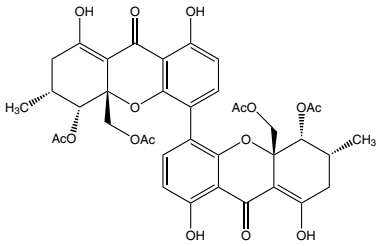
• Shows larvicidal, antimycobacterial and antituberculosis activity • Tingling-inducing agent • Excellent stable model compound for sensory studies • α-Glucosidase inhibitor • ACAT (Acyl-CoA cholesteryl acyl transferase) inhibitor

PF 1052 see Antibiotic PF 1052

Phomoxanthone A

AG-CN2-0017-M001 1 mg

Formula: $C_{38}H_{38}O_{16}$ **MW:** 750.7 **CAS:** 359844-69-2



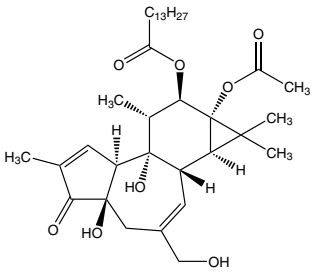
Isolated from fungus *Phoma* sp.

• Anticancer compound • Shows antimalarial and antitubercular activity • Cytotoxic • Antibacterial (Gram-positive) and antifungal

Phorbol 12-myristate 13-acetate [PMA; TPA; 12-O-Tetradecanoylphorbol 13-acetate]

AG-CN2-0010-M001 1 mg
AG-CN2-0010-M005 5 mg
AG-CN2-0010-M010 10 mg
AG-CN2-0010-M025 25 mg

Formula: $C_{36}H_{56}O_8$ **MW:** 616.8 **CAS:** 16561-29-8



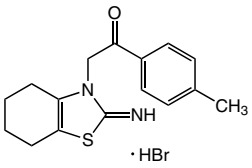
Semisynthetic.

• Most commonly-used phorbol ester • Binds to and activates protein kinase C (PKC) at nM concentrations • Induces cell growth arrest through a variety of pathways including the mitogen-activated protein kinases (MAPKs), p38 and c-Jun N-terminal kinase (JNK) pathways • Potent mouse skin tumor promoter • Promoter of iNOS (NOS II) • Apoptosis inducer • Inhibitor of anti-lipolytic activity of insulin

Pifithrin-α . HBr [1-(4-Methylphenyl)-2-(4,5,6,7-tetrahydro-2-imino-3(2*H*)-benzothiazolyl)ethanone]

AG-CR1-0004-M005 5 mg
AG-CR1-0004-M010 10 mg
AG-CR1-0004-M025 25 mg

Formula: $C_{16}H_{18}N_2O_S$. HBr **MW:** 286.4 . 80.9 **CAS:** 63208-82-2



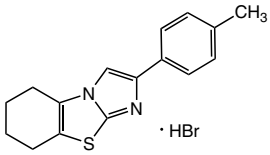
• p53 inhibitor • Reversibly blocks p53-dependent transcriptional activation • Apoptosis inhibitor

Pifithrin-α (cyclic) . HBr

[2-(4-Methylphenyl)imidazo[2,1-*b*]-5,6,7,8-tetrahydrobenzothiazole]

AG-CR1-0052-M005 5 mg
AG-CR1-0052-M010 10 mg
AG-CR1-0052-M050 50 mg

Formula: $C_{16}H_{16}N_2S$. HBr **MW:** 268.4 . 80.9 **CAS:** 60477-34-1



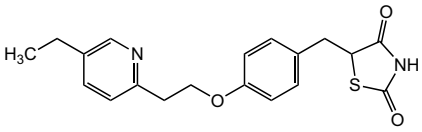
• Stable analog of pifithrin-α (Prod. No. AG-CR1-0004) • p53 inhibitor

Pioglitazone

[5-[[4-[2-(5-Ethyl-2-pyridinyl)ethoxy]phenyl]methyl]-2,4-thiazolidinedione]

AG-CR1-0067-M001 1 mg
AG-CR1-0067-M005 5 mg
AG-CR1-0067-M025 25 mg

Formula: $C_{19}H_{20}N_2O_3S$ **MW:** 356.4 **CAS:** 111025-46-8



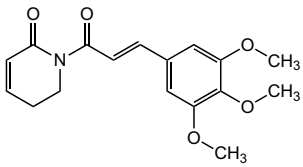
• Thiazolidinedione (TZD) reference compound • Selective PPARγ agonist. Selectively activates PPARγ-1 • Antidiabetic • About one tenth as potent as rosiglitazone • Lipid metabolism modulator • Estrogen synthesis inhibitor • NF-κB inhibitor • Neuroprotective

Piperlongumine

[Piplartine; 5,6-Dihydro-1-(1-oxo-3-[3,4,5-trimethoxyphenyl]-trans-2-propenyl)-2[1*H*]-pyridinone]

AG-CN2-0024-M010 10 mg

Formula: $C_{17}H_{19}NO_5$ **MW:** 317.3 **CAS:** 20069-09-4



Isolated from *Piper longum* roots.

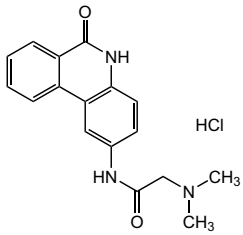
• Cytotoxic against tumor cell lines • Necrosis and apoptosis inducer • Shows anti-platelet aggregation activity • Shows significant anxiolytic and antidepressant activities • Promotes adipogenesis of 3T3-L1 cells • Selectively kills cancer cells by targeting the stress response to ROS

PJ-34

[N-(6-Oxo-5,6-dihydro-phenanthridin-2-yl)-N,N-dimethylacetamide]

AG-CR1-0100-M001 1 mg
AG-CR1-0100-M005 5 mg
AG-CR1-0100-M025 25 mg

Formula: $C_{17}H_{17}N_3O_2$. HCl **MW:** 295.2 . 36.5 **CAS:** 344458-15-7



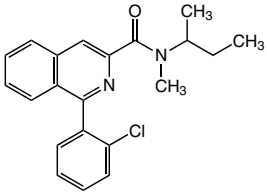
• Potent, water soluble poly(ADP-ribose) polymerase (PARP) inhibitor • Inhibits peroxynitrite-induced cell necrosis • Shows significant, dose-dependent anti-inflammatory effects • Protective in models of stroke • Suppresses cell growth in liver cancer cells

PK 11195

[1-(2-Chlorophenyl)-N-methyl-N-(1-methylpropyl)-3-isoquinolinecarboxamide]

AG-CR1-0008-M010 10 mg
AG-CR1-0008-M050 50 mg

Formula: $C_{21}H_{21}ClN_2O$ **MW:** 352.9 **CAS:** 85532-75-8



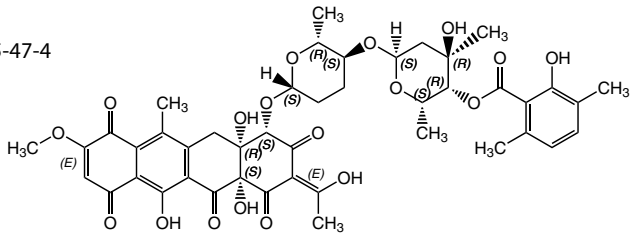
• Selective peripheral benzodiazepine antagonist • Apoptosis enhancer • Glucose-induced insulin secretion inhibitor • Induces mitochondria cytochrome c release • Anticancer compound • Antiproliferative

Polyketomycin

[Antibiotic K99-5147]

BVT-0033-M001 1 mg

Formula: $C_{44}H_{48}O_{18}$ **MW:** 864.8 **CAS:** 200625-47-4



Isolated from *Streptomyces* sp.

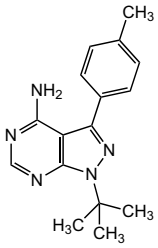
• Tetracyclic quinone glycoside • Antibacterial and antimalarial
• Antitumor compound

PP1

[4-Amino-5-(methylphenyl)-7-(*tert*.butyl)pyrazolo-(3,4-d)pyrimidine]

AG-CR1-3562-M001 1 mg
AG-CR1-3562-M005 5 mg

Formula: $C_{16}H_{19}N_5$ **MW:** 281.4 **CAS:** 172889-26-8



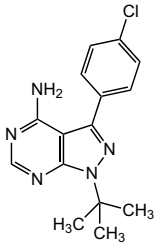
• Highly potent and selective Scr family tyrosine kinase inhibitor • Shows anti-Ras cancer potential by blocking Ras-induced activation of PAK1 • Antitumor compound • RIP2 inhibitor • Blocks TGF-β-mediated cellular responses

PP2

[4-Amino-5-(4-chlorophenyl)-7-(*tert*.butyl)pyrazolo-(3,4-d)pyrimidine; AG 1879]

AG-CR1-3563-M001 1 mg
AG-CR1-3563-M005 5 mg

Formula: $C_{15}H_{16}ClN_5$ **MW:** 301.8 **CAS:** 172889-27-9



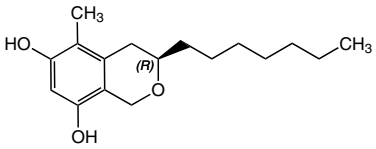
• Highly potent and selective Scr family tyrosine kinase inhibitor • Reduces cancer metastasis • Apoptotic • Antitumor compound • RIP2 inhbitor • Blocks TGF-β-mediated cellular responses • Autophagy modulator

Pseudoanguillosporin A

[(R)-3-Heptyl-5-methylisochroman-6,8-diol]

BVT-0311-C500 500 µg
BVT-0311-M001 1 mg

Formula: $C_{17}H_{26}O_3$ **MW:** 278.4 **CAS:** 1159392-22-9



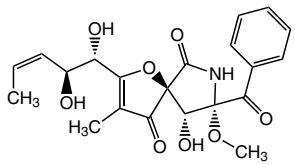
Isolated from *Strobilurus* sp.

• Antifungal • Respiration inhibitor • Inhibits mitochondrial respiration in fungi • Binds at the Q_0-centre on cytochrome b and blocks the electron transfer between cytochrome b and cytochrome c_1

Pseurotin A

BVT-0003-M001 1 mg

Formula: $C_{22}H_{25}NO_8$ **MW:** 431.4 **CAS:** 58523-30-1



Isolated from *Aspergillus fumigatus.*

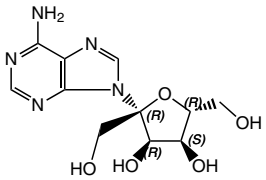
• Antibiotic • Chitin synthase inhibitor • Cytotoxic • Shows nematicidal activity

Psicofuranine

[Angustmycin C; U-9586; 9-β-D-Psicofuranosyl-9*H*-purin-6-amine]

BVT-0284-M001 1 mg
BVT-0284-M005 5 mg

Formula: $C_{11}H_{15}N_5O_5$ **MW:** 297.3 **CAS:** 1874-54-0



Isolated from *Streptomyces* sp. S 2113.

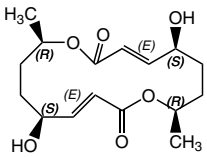
• Nucleoside antibiotic • Antitumor compound • Xanthosine monophosphate (XMP) aminase inhibitor • Antimetabolite of the purine biosynthesis

Pyrenophorol

[Helmidiol; (-)-Pyrenophorol]

BVT-0289-C500 500 µg
BVT-0289-M001 1 mg

Formula: $C_{16}H_{24}O_6$ **MW:** 312.4 **CAS:** 22248-41-5
155326-45-7



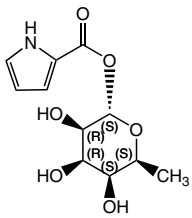
Isolated from *Phoma* sp.

• Phytotoxic, antifungal and antihelmintic • Prolylendopeptidase inhibitor

Pyrrolcarbonyltaloside [1-O-(Pyrrolylcarbonyl)-6-desoxy-α-L-talopyranoside]

BVT-0095-M001 1 mg
BVT-0095-M005 5 mg

Formula: $C_{11}H_{15}NO_6$ **MW:** 257.2 **CAS:** 912539-02-7



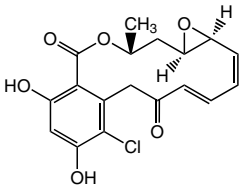
Isolated from *Kitasatospora* sp. (Gö M1).

• Antibiotic • Shows weak cytotoxic activity against different tumor cell lines • Displays antiparasitic activity

Radicicol [Monorden; NSC 294404; RHI-12648]

AG-CN2-0021-M001 1 mg
AG-CN2-0021-M005 5 mg

Formula: $C_{18}H_{17}ClO_6$ **MW:** 364.8 **CAS:** 12772-57-5



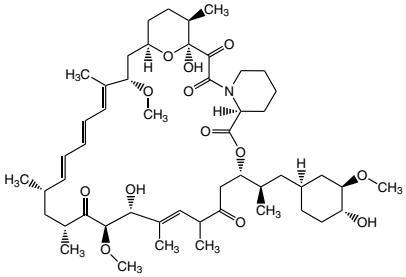
Isolated from *Gilmaniella* sp.

• Antibiotic • Protein tyrosine kinase inhibitor • Antifungal, anti-malarial, anti-angiogenic, anti-inflammatory and antiviral activity • Cyclooxygenase-2 (COX-2) expression inhibitor • Induces the differentiation of HL-60 cells into macrophages • Potent HSP90 inhibitor • Anticancer compound • *In vivo* Rad/Raf interaction inhibitor • Inhibitor of AP-1-, NF-κB- and serum response factor (SRF)-mediated transcription. Suppresses expression of iNOS (NOS II) • Non-competitive inhibitor of ATP citrate lyase • DNA topoisomerase VI and type II DNA topoisomerase inhibitor • Protects against LPS/IFN-γ-induced neuronal cell death • Apoptosis inducer

Rapamycin [Sirolimus; Rapamune; NSC 226080; Antibiotic AY-22989; WY-090217; RAPA; SILA 9268A; CCRIS 9024]

AG-CN2-0025-C100 100 µg
AG-CN2-0025-M001 1 mg
AG-CN2-0025-M005 5 mg
AG-CN2-0025-M025 25 mg

Formula: $C_{51}H_{79}NO_{13}$ **MW:** 914.2 **CAS:** 53123-88-9



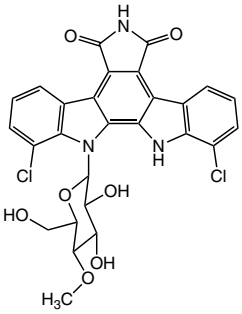
Isolated from *Streptomyces hygroscopicus*.

• Antibiotic • Antibacterial and antifungal properties • Forms a complex with FKBP12 and inhibits the molecular target of rapamycin (mTOR) • Blocks activation of T and B cells • Potent immunosuppressant used as an alternative to calcineurin inhibitors • Cell cycle progression (at the G1/S transition) inhibitor • Antiproliferative. Antitumor compound • Apoptosis enhancer • Activator of autophagy • Anti-HIV and anti-aging compound • Neuroprotective

Rebeccamycin [NSC 359079; BRN 4732638]

BVT-0139-C250 250 µg
BVT-0139-M001 1 mg

Formula: $C_{27}H_{21}Cl_2N_3O_7$ **MW:** 570.4 **CAS:** 93908-02-2



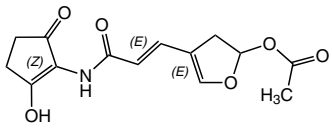
Isolated from *Streptomyces* sp.

• Antibiotic • Weak topoisomerase I (Topo I) inhibitor • Structurally similar to staurosporine (Prod. No. AG-CN2-0022) • Antitumor compound

Reductiomycin [AM-6201; S 551II]

BVT-0292-M001 1 mg
BVT-0292-M005 5 mg

Formula: $C_{14}H_{15}NO_6$ **MW:** 293.3 **CAS:** 68748-55-0



Isolated from *Streptomyces* sp.

• Antibiotic • Antibacterial, antifungal and antiviral • Antitumor compound

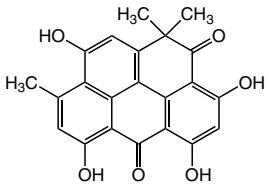
Resistomycin [Geliomycin; Heliomycin; Itamycin]

BVT-0036-M001 1 mg

Formula: $C_{22}H_{16}O_6$ **MW:** 376.4 **CAS:** 20004-62-0

Isolated from *Streptomyces* sp.

• Antibacterial (Gram-positive and mycobacteria) • RNA polymerase inhibitor • Apoptosis inducer



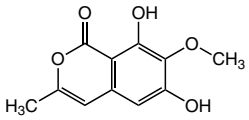
Reticulol [6,8-Dihydroxy-7-methoxy-3-methyl-1*H*-isochromen-1-one]

BVT-0011-C250 250 µg
BVT-0011-M001 1 mg

Formula: $C_{11}H_{10}O_5$ **MW:** 222.2 **CAS:** 26246-41-3

Isolated from *Streptomyces* sp.

• Antibiotic • Cyclic adenosine 3',5'-monophosphate phosphodiesterase and topoisomerase I (Topo I) inhibitor • Antitumor compound



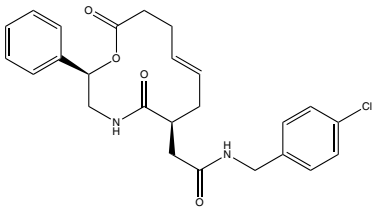
Robotnikinin [N-[(4-Chlorophenyl)methyl]-2-[(2R,6S,8E)-5,12-dioxo-2-phenyl-1-oxa-4-azacyclododec-8-en-6-yl]acetamide]

AG-CR1-0069-M001 1 mg

Formula: $C_{25}H_{27}ClN_2O_4$ **MW:** 454.9

Synthetic.

• Sonic hedgehog (Shh) signaling small molecule modulator • Inhibits the Shh pathway in human cell lines upstream of Smo • Targets the Shh N-terminal protein



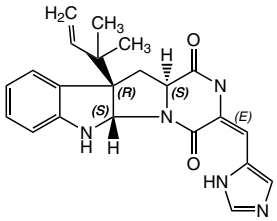
Roquefortine C [Nsc292134]

AG-CN2-0002-M001 1 mg

Formula: $C_{22}H_{23}N_5O_2$ **MW:** 389.5 **CAS:** 58735-64-1

Isolated from fungus *Penicillium* sp.

• Tremorgenic • Mycotoxin • Potent neurotoxin • Gram-positive bacteria growth inhibitor • Cytochrome P450 inhibitor • Cytotoxic

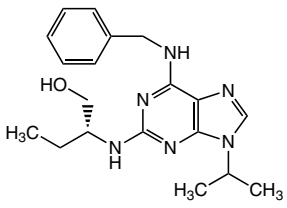


(R)-Roscovitine [6-Benzylamino-2-(R)-[(1-ethyl)-2-hydroxyethylamino]-9-isopropylpurine]

AG-CR1-0006-M001 1 mg
AG-CR1-0006-M005 5 mg
AG-CR1-0006-M050 50 mg

Formula: $C_{19}H_{26}N_6O$ **MW:** 354.5 **CAS:** 186692-46-6

• Potent and selective inhibitor of CDKs • More potent than olomoucine • Inhibits CDK1/cyclin B kinase, CDK2 and CDK5/p35 • Inhibits M phase promoting factor (MPF) kinase activity • Arrests human fibroblasts in G1 phase • Antitumor compound • Activates the mitogen-activated protein kinase pathway • Targets both the p53 and NF-κB pathways • Has effects on calcium channel gating • Prevents DNA damage-induced cyclin A1 upregulation • Apoptosis inducer • As CYC202 in phase I clinical trials



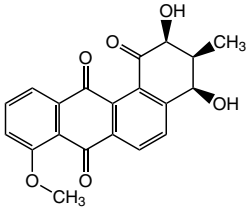
Rubiginone D2

BVT-0024-M001 1 mg
BVT-0024-M005 5 mg

Formula: $C_{20}H_{16}O_6$ **MW:** 352.3 **CAS:** 274913-71-2

Isolated from *Streptomyces* sp. (strain Gö N1/5).

• Antibiotic • Antibacterial • Antitumor compound



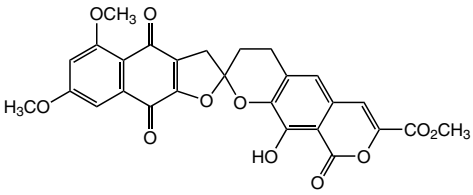
β-Rubromycin

BVT-0251-M001 1 mg
BVT-0251-M005 5 mg

Formula: $C_{27}H_{20}O_{12}$ **MW:** 536.4 **CAS:** 27267-70-5

Isolated from *Streptomyces* sp.

• Antibiotic • HIV-1 reverse transcriptase inhibitor • Human telomerase inhibitor • Antibacterial • Cytostatic



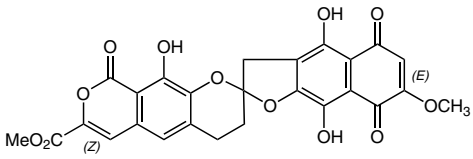
γ-Rubromycin

BVT-0007-M001 1 mg
BVT-0007-M005 5 mg

Formula: $C_{26}H_{18}O_{12}$ **MW:** 522.4 **CAS:** 27267-71-6

Isolated from *Streptomyces* sp.

• Antibiotic • HIV-1 reverse transcriptase inhibitor • Human telomerase inhibitor • Antibacterial • Cytostatic

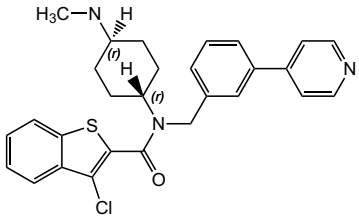


SAG [N-Methyl-N′-(3-pyridinylbenzyl)-N′-(3-chlorobenzo[b]thiophene-2-carbonyl)-1,4-diaminocyclohexane]

AG-CR1-3506-M001 1 mg
AG-CR1-3506-M005 5 mg

Formula: $C_{28}H_{28}ClN_3OS$ **MW:** 490.1 **CAS:** 364590-63-6

• Cell permeable smoothened (Smo) agonist • Shown to induce Sonic hedgehog (Shh) pathway activation and counteracts cyclopamine inhibition of Smo • Acts as an activator of Smo at low concentrations and as an inhibitor of Smo at very high concentrations



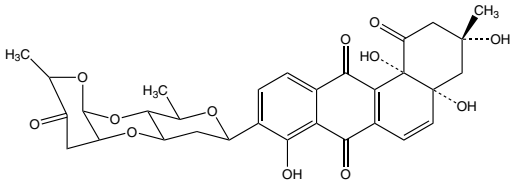
Saquayamycin B_1

BVT-0382-C500 500 µg
BVT-0382-M001 1 mg
BVT-0382-M005 5 mg

Formula: $C_{31}H_{32}O_{12}$ **MW:** 596.6 **CAS:** 99260-68-1

Isolated from *Streptomyces nodosus.*

• Angucycline antibiotic • Antibacterial • Antitumor compound • Active against Gram-positive bacteria and P388 leukaemia cells • Farnesyl-protein transferase inhibitor • Inhibitor of nitric oxide synthase (NOS) (shown for Saquayamycin A_1)



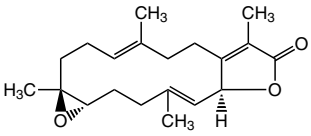
Sarcophine [NSC250434]

BVT-0305-M002 2 mg
BVT-0305-M010 10 mg

Formula: $C_{20}H_{28}O_3$ **MW:** 316.4 **CAS:** 55038-27-2

Isolated from soft coral.

• Acetylcholine esterase and ATPase inhibitor • Ichthyotoxin • Tumorigenesis inhibitor

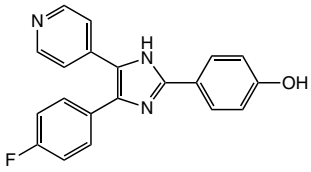


SB202190 [FHPI; 4-(4-Fluorophenyl)-2-(4-hydroxyphenyl)-5-(4-pyridyl)-1*H*-imidazole]

AG-CR1-0028-M001 1 mg
AG-CR1-0028-M005 5 mg
AG-CR1-0028-M025 25 mg

Formula: $C_{20}H_{14}FN_3O$ **MW:** 331.3 **CAS:** 152121-30-7

• Potent and cell permeable p38 MAP kinase inhibitor • Apoptosis inducer • Inhibits p38α and β, but not γ and δ isoforms • JNK activator

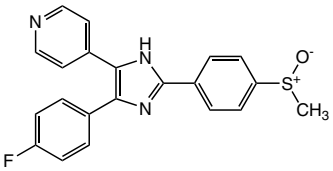


SB203580

[4-(4-Fluorophenyl)-2-(4-methylsulfinylphenyl)-5-(4-pyridyl)1*H*-imidazole]

AG-CR1-0030-M001 1 mg
AG-CR1-0030-M005 5 mg
AG-CR1-0030-M025 25 mg

Formula: $C_{21}H_{16}FN_3OS$ **MW:** 377.4 **CAS:** 152121-47-6



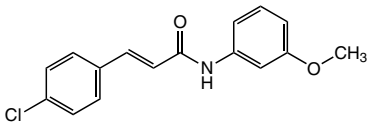
• Cell permeable, specific p38 MAP kinase inhibitor • Binds to the ATP binding site of p38 MAP kinase • T cell proliferation inhibitor • IL-2 production inhibitor • SAPK/JNK inhibitor • COX-1 and -2 inhibitor • Raf-1 activator • Apoptosis enhancer • Antiproliferative • PDK1 inhibitor • Anti-inflammatory

SB366791

[N-(3-Methoxyphenyl)-4-chlorocinnamide]

AG-CR1-0034-M005 5 mg
AG-CR1-0034-M025 25 mg

Formula: $C_{16}H_{14}ClNO_2$ **MW:** 287.8 **CAS:** 472981-92-3

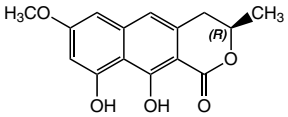


• Potent and selective TRPV1 antagonist

(R)-Semivioxanthin

BVT-0360-C500 500 µg
BVT-0360-M001 1 mg

Formula: $C_{15}H_{14}O_5$ **MW:** 274.3 **CAS:** 70477-26-8



Isolated from *Penicillium citreo-viride*.

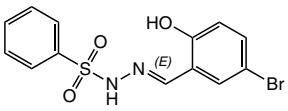
• Mycotoxin • Antibacterial (Gram-positive) and antifungal • Immunoregulator by degradation of IκB (Inhibitor of NF-κB) and regulation of the TNF-α and MAPK (mitogen-activated protein kinase) signaling pathways

Shz-1

[2-[(5-Bromo-2-hydroxyphenyl)methylene]hydrazide benzenesulfonic acid]

AG-CR1-3502-M001 1 mg
AG-CR1-3502-M005 5 mg

Formula: $C_{13}H_{11}BrN_2O_3S$ **MW:** 355.2 **CAS:** 326886-05-9

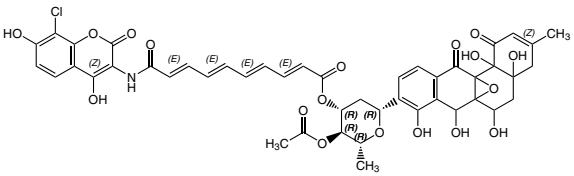


• Enhancer of myocardial regenerative repair by stem cells • Potent inducer of Nkx2.5 and a subset of other cardiac markers, including myocardin and sarcomeric-tropomyosin (SαTM) in a variety of different stem/progenitor cells

Simocyclinone D8

BVT-0290-M001 1 mg
BVT-0290-M005 5 mg

Formula: $C_{46}H_{42}ClNO_{18}$ **MW:** 932.3 **CAS:** 301845-97-6



Isolated from *Streptomyces antibioticus* Tü 6040.

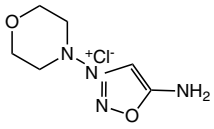
• Antibiotic • Bacterial DNA gyrase inhibitor • Human topoisomerase II (Topo II) inhibitor • Antibacterial (Gram-positive) • Antitumor compound

SIN-1 chloride

[3-Morpholinosydnonimine; Linsidomine]

AG-CR1-0027-M010 10 mg
AG-CR1-0027-M050 50 mg

Formula: $C_6H_{11}ClN_4O_2$ **MW:** 206.6 **CAS:** 16142-27-1



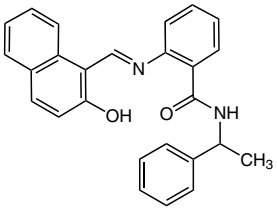
• Nitric oxide (NO) donor • Generates both superoxide anion and nitric oxide that spontaneously form peroxynitrite • Platelet aggregation inhibitor • Guanylyl cyclase activator • Cytotoxic • Positive ionotropic • Vasodilator

Sirtinol

[Sir Two Inhibitor Naphthol; 2-[(2-Hydroxynaphthalen-1-yl-methylene)amino]-N-(1-phenethyl)benzamide]

AG-CR1-0055-M001 1 mg
AG-CR1-0055-M005 5 mg
AG-CR1-0055-M025 25 mg

Formula: $C_{26}H_{22}N_2O_2$ **MW:** 394.5 **CAS:** 410536-97-9



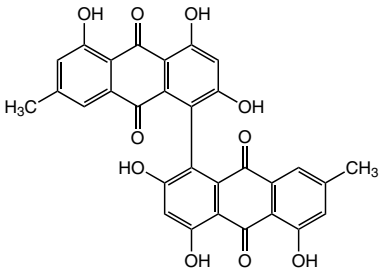
• Specific cell permeable SIRT1 (sirtuin 1) inhibitor • Platelet aggregation inhibitor • Apoptosis inducer

Skyrin

[Rhodophyscin; Endothianin]

AG-CN2-0001-M001 1 mg

Formula: $C_{30}H_{18}O_{10}$ **MW:** 538.5 **CAS:** 602-06-2



Isolated from fungus *Talaromyces* sp.

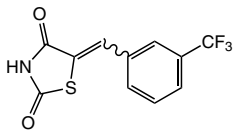
• Non-peptidic antidiabetic agent • Receptor-selective glucagon antagonist • Free radical species and singlet oxygen scavenger • Mycotoxin • Cytotoxic • Antioxidant

SMI-4a

[(5E/Z)-[[3-(Trifluoromethyl)phenyl]methylene]-2,4-thiazolidinedione]

AG-CR1-3503-M005 5 mg

Formula: $C_{11}H_6F_3NO_2S$ **MW:** 273.2 **CAS:** 327033-36-3



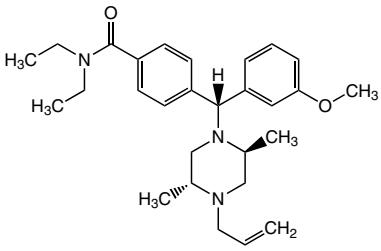
• Selective inhibitor of Pim-1 and Pim-2 protein kinases • Inducer of G1 phase cell cycle arrest • Inducer of p27Kip1 • Inducer of apoptosis • Inhibitor of the mammalian target of rapamycin C1 (mTORC1) pathway • Downregulates c-myc

SNC80

[(+)-4-[(αR)-α-((2S,5R)-4-Allyl-2,5-dimethyl-1-piperazinyl)-3-methoxybenzyl]-N,N-diethylbenzamide]

AG-CR1-0017-M005 5 mg
AG-CR1-0017-M025 25 mg
AG-CR1-0017-M100 100 mg

Formula: $C_{28}H_{39}N_3O_2$ **MW:** 449.6 **CAS:** 156727-74-1



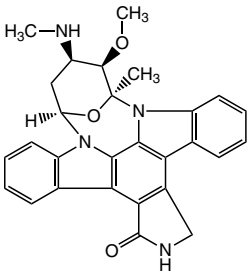
• Highly selective and potent non-peptide δ-opioid receptor agonist • Mediates downregulation of the δ-opioid receptor • Shows antidepressant-like effects • Modulates voltage-dependent sodium channels • Antinociceptive • Activates ATP-sensitive K^+ channels • Enhances amphetamine-mediated dopamine efflux

Staurosporine

[Antibiotic AM2282; Antibiotic 230; CCRIS 3272]

AG-CN2-0022-C100 100 µg
AG-CN2-0022-C500 500 µg
AG-CN2-0022-M001 1 mg
AG-CN2-0022-M005 5 mg

Formula: $C_{28}H_{26}N_4O_3$ **MW:** 466.5 **CAS:** 62996-74-1



Isolated from *Streptomyces spiralis*.

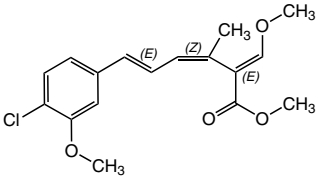
• Antibiotic • Antifungal and anti-yeast activity • Inhibits platelet aggregation induced by collagen or ADP. Has no effect on thrombin-induced platelet aggregation • Potent, cell permeable, reversible, ATP-competitive and broad spectrum inhibitor of protein kinases • Key apoptosis inducer • Topoisomerase II (Topo II) inhibitor

Strobilurin B

[(2E,3Z,5E)-Methyl-6-(4-chloro-3-methoxyphenyl)-2-(methoxy-methylene)-3-methylhexa-3,5-dienoate]

BVT-0312-C500 500 µg
BVT-0312-M001 1 mg

Formula: $C_{17}H_{19}ClO_4$ **MW:** 322.8 **CAS:** 65105-52-4



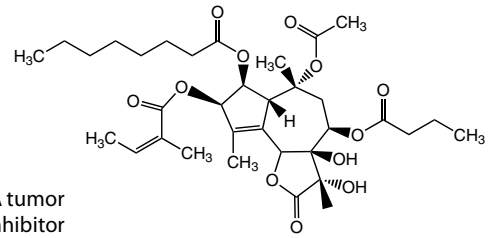
Isolated from *Strobilurus* sp.

• Antifungal • Respiration inhibitor • Blocks the electron transfer between cytochrome b and cytochrome c_1

Thapsigargin

AG-CN2-0003-M001 1 mg
AG-CN2-0003-M005 5 mg
AG-CN2-0003-M010 10 mg
AG-CN2-0003-M025 25 mg

Formula: $C_{34}H_{50}O_{12}$ **MW:** 650.8 **CAS:** 67526-95-8



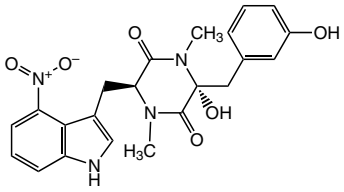
Isolated from *Thapsia garganica.*

• Intracellular Ca^{2+} signaling probe • Specific and sensitive inhibitor of SERCA • Non-TPA/PMA tumor promoter • Histamine release inducer • Apoptosis inducer • NOS modulator • Angiogenesis inhibitor • Autophagy inducer

Thaxtomin A [Thaztomin A]

BVT-0206-M001 1 mg
BVT-0206-M005 5 mg

Formula: $C_{22}H_{22}N_4O_6$ **MW:** 438.4 **CAS:** 122380-18-1



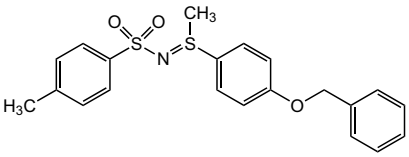
Isolated from *Streptomyces* sp. Gö-Dra 17.

• Phytotoxin • Plant cell necrosis inducer • Induces common scab disease of potato

TPh A [Triphenyl Compound A; S-[p-(Benzyloxy)phenyl]-S-methyl-N-(p-tolylsulfonyl)-sulfilimine]

AG-CR1-3507-M001 1 mg
AG-CR1-3507-M005 5 mg

Formula: $C_{21}H_{21}NO_3S_2$ **MW:** 399.5 **CAS:** 21306-65-0

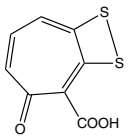


• Nuclear protein pirin inhibitor • Inhibits the interaction between Bcl3 oncoprotein and the nuclear protein pirin • Melanoma cell migration inhibitor

Tropodithietic acid [TDA]

BVT-0152-M001 1 mg
BVT-0152-M005 5 mg

Formula: $C_8H_4O_3S_2$ **MW:** 212.3 **CAS:** 750590-18-2



Isolated from *Roseobacter gallaeciensis.*

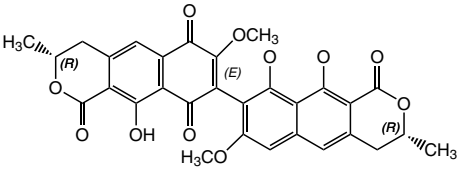
• Antibiotic • Isomeric to thiotropocin • Antibacterial. Active against Gram-positive and Gram-negative bacteria • Antifungal and anti-nematodical • Antitumor compound

UK-1 see Antibiotic UK-1

Viomellein [BRN4630536]

BVT-0359-C500 500 µg
BVT-0359-M001 1 mg

Formula: $C_{30}H_{24}O_{11}$ **MW:** 560.5 **CAS:** 55625-78-0



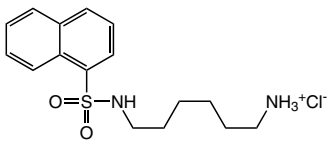
Isolated from *Aspergillus sulphureus.*

• Genotoxic mycotoxin • Antibacterial (Gram-positive) and insecticidal

W-5 . HCl

AG-CR1-0003-M005 5 mg
AG-CR1-0003-M025 25 mg

Formula: $C_{16}H_{22}N_2O_2S$. HCl **MW:** 306.4 . 36.5 **CAS:** 61714-25-8



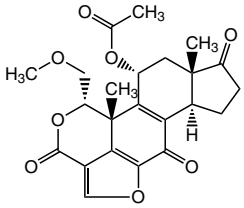
• Calmodulin antagonist • Cell proliferation inhibitor • Ca^{2+}/calmodulin-regulated phosphodiesterase (PDE I) inhibitor • Myosin light chain kinase (MLCK) inhibitor

Wortmannin

[KY 12420; BRN 0067676; NSC 627609; Antibiotic SL-2052]

AG-CN2-0023-M001	1 mg
AG-CN2-0023-M005	5 mg
AG-CN2-0023-M025	25 mg

Formula: $C_{23}H_{24}O_8$ **MW:** 428.4 **CAS:** 19545-26-7



Isolated from *Penicillium* sp.

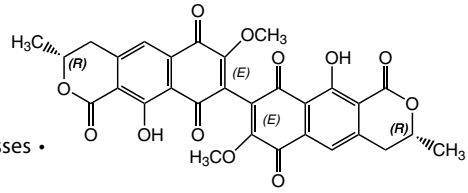
• Antibiotic • Potent cell permeable and selective inhibitor of phosphatidyl-inositol 3-kinase (PI3K) • Antitumor compound • Radiosensitizing agent • Adipogenesis inhibitor • Angiogenesis inhibitor • Autophagy inhibitor • DNA repair, receptor-mediated endocytosis and cell proliferation inhibitor • Potentiates the LPS-induced nitric oxide (NO) production from macrophages • Polo-like kinase family inhibitor

Xanthomegnin

[NSC264720]

BVT-0365-C500	500 µg
BVT-0365-M001	1 mg

Formula: $C_{30}H_{22}O_{12}$ **MW:** 574.5 **CAS:** 1685-91-2



Isolated from *Penicillium citreo-viride.*

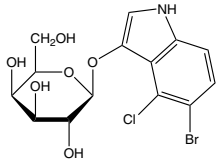
• Genotoxic mycotoxin • Antitumor compound • Interferes with cellular respiratory processes • Potent iNOS (NOS II) Inhibitor

X-Gal

[5-Bromo-4-chloro-3-indolyl β-D-galactoside]

AG-CC1-0003-M050	50 mg
AG-CC1-0003-M250	250 mg
AG-CC1-0003-G001	1 g
AG-CC1-0003-G005	5 g

Formula: $C_{14}H_{15}BrClNO_6$ **MW:** 408.6 **CAS:** 7240-90-6



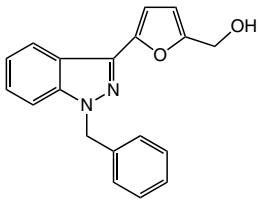
• Molecular biology reagent • Chromogenic substrate for β-galactosidase • Used in gene cloning together with IPTG (Prod. No. AG-CC1-0002) to indicate whether a cell expresses the β-galactosidase enzyme, which is encoded by the lacZ gene, in a technique called blue/white screening • Distinguishes between recombinant and non-recombinant plasmids carrying the β-galactosidase gene • Used in two-hybrid analysis • Used to determine *E. coli* and coliform content in drinking water

YC-1

[3-(5'-Hydroxymethyl-2'-furyl)-1-benzylindazole]

AG-CR1-0120-M001	1 mg
AG-CR1-0120-M005	5 mg
AG-CR1-0120-M025	25 mg

Formula: $C_{19}H_{16}N_2O_2$ **MW:** 304.4 **CAS:** 170632-47-0



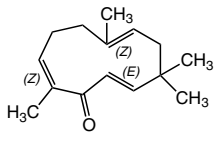
• Nitric oxide (NO) independent, superoxide-sensitive soluble guanylyl cyclase (sGC) activator • Induces concentration-dependent increase in cGMP levels • Inhibits platelet adhesion to collagen • Thombosis inhibitor • Non-specific phosphodiesterase inhibitor • Na^+ channel blocker • Anticancer compound • HIF-α inhibitor • Blocks angiogenesis. Tumor growth inhibitor • Apoptosis inducer • NK cell differentiation enhancer

Zerumbone

[(2E,6E,10E)-2,6,9,9-Tetramethylcycloundeca-2,6,10-trien-1-one]

AG-CN2-0004-M010	10 mg
AG-CN2-0004-M050	50 mg

Formula: $C_{15}H_{22}O$ **MW:** 218.3 **CAS:** 471-05-6



Isolated from the underground parts of *Curcuma zerumbet.*

• Chemopreventive probe • Apoptosis inducer • Potent antitumor compound • Anti-inflammatory • Antinociceptive • Probe to study chemokine receptors functioning

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