



Product Information

Product ID G1650

CAS No. 24512-63-8

Chemical Name

Synonym

Formula C₁₇H₂₄O₁₀

Formula Wt. 388.37

Melting Point 163-164°C

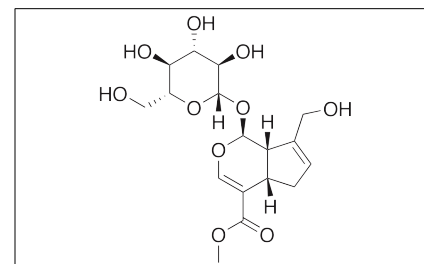
Purity ≥98%

Solubility Soluble in water, methanol
and ethanol. 24512-63-8

Store Temp Ambient

Ship Temp Ambient

Description Geniposide is an iridoid glycoside found in species of *Gardenia* that exhibits antioxidative, anti-diabetic, anti-inflammatory, neuroprotective, antiviral, and antithrombotic activities. Geniposide induces phase II enzymes and increases expression of glutathione and glutathione peroxidase. Geniposide also inhibits phosphorylation of GSK-3β and stimulates expression of GLUT2, increasing insulin secretion in B cells. In LPS-stimulated epithelial cells, geniposide decreases production of toll-like receptor 4 (TLR4), IL-1β, IL-6, and TNF-α and downregulates activation of p38 MAPK, ERK, and NF-κB. In diabetic animal models of Alzheimer's disease, geniposide decreases hippocampal levels of amyloid-β (Aβ). This compound also decreases enterovirus yields, infectious activity, and ribosomal entry by inhibiting viral protein translation. In vitro, geniposide inhibits collagen-induced platelet aggregation and activity of phospholipase A2 (PLA2).



Bulk quantities available upon request

Product ID	Size
G1650	10 mg
G1650	25 mg
G1650	100 mg

References Guo LX, Liu JH, Yin F. Regulation of insulin secretion by geniposide: possible involvement of phosphatidylinositol 3-phosphate kinase. *Eur Rev Med Pharmacol Sci.* 2014;18(9):1287-94. PMID: 24867506.

Song X, Zhang W, Wang T, et al. Geniposide Plays an Anti-inflammatory Role via Regulating TLR4 and Downstream Signaling Pathways in Lipopolysaccharide-Induced Mastitis in Mice. *Inflammation.* 2014 Apr 27. [Epub ahead of print]. PMID: 24771071.

Liu J, Guo L, Yin F, et al. Geniposide regulates glucose-stimulated insulin secretion possibly through controlling glucose metabolism in INS-1 cells. *PLoS One.* 2013 Oct 22;8(10):e78315. Erratum in: *PLoS One.* 2014;9(1). PMID: 24167617.

Liu J, Zhang Y, Deng X, et al. Geniposide decreases the level of Aβ1-42 in the hippocampus of streptozotocin-induced diabetic rats. *Acta Biochim Biophys Sin (Shanghai).* 2013 Sep;45(9):787-91. PMID: 23803411.

Suzuki Y, Kondo K, Ikeda Y, et al. Antithrombotic effect of geniposide and genipin in the mouse thrombosis model. *Planta Med.* 2001 Dec;67(9):807-10. PMID: 11745015.

Tseng T, Chu C, Wang C. Comparison of geniposide and its acetylated derivative for the inhibition of aflatoxin b1-induced DNA-repair synthesis in rat primary hepatocyte. *Oncol Rep.* 1994 Jan;1(1):165-8. PMID: 21607329.

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.