



LKT Laboratories, Inc.

γ -Linolenic Acid (6c, 9c, 12c)

Phone: 888-558-5227
651-644-8424
Fax: 888-558-7329
Email: getinfo@lktlabs.com
Web: lktlabs.com

Product Information

Product ID L3456

CAS No. 506-26-3

Chemical Name

Synonym gamma-Linolenic acid, cis,cis,cis-6,9,12-Octadecatrienoic acid, GLA

Formula C₁₈H₃₀O₂

Formula Wt. 278.43

Melting Point

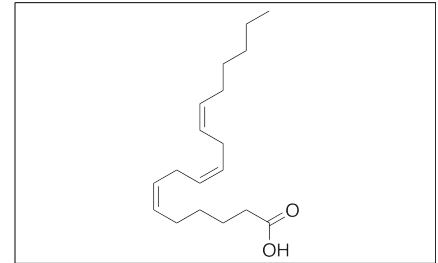
Purity \geq 98%

Solubility Soluble in methanol, ethanol, ethyl acetate. Slightly soluble in chloroform.

Store Temp -80° C

Ship Temp Ambient

Description γ -Linolenic acid (GLA) is an omega-6 fatty acid typically found in vegetable oils that exhibits antithrombotic, anti-inflammatory, and anti-atherosclerotic properties. GLA is a precursor to prostaglandin E1 and eicosapentaenoic acid. This compound regulates insulin secretion through its natural agonist activity at peroxisome proliferator-activated receptors (PPARs); it inhibits diabetes mellitus-induced albuminuria and increases in MCP-1. GLA may also have anticancer activity, as it alters generation of ROS, decreases production of TNF- α , and induces apoptosis in leukemia cells.



Bulk quantities available upon request

Product ID	Size
L3456	10 mg
L3456	25 mg
L3456	100 mg

References Lai MC, Teng TH, Yang C. The Natural PPAR Agonist Linoleic Acid Stimulated Insulin Release in Rat Pancreas. J Vet Med Sci. 2013 Jul 5. [Epub ahead of print] PMID: 23832628.

Kim DH, Yoo TH, Lee SH, et al. Gamma linolenic acid exerts anti-inflammatory and anti-fibrotic effects in diabetic nephropathy. Yonsei Med J. 2012 Nov 1;53(6):1165-75. PMID: 23074118.

Das UN. Tumoricidal and anti-angiogenic actions of gamma-linolenic acid and its derivatives. Curr Pharm Biotechnol. 2006 Dec;7(6):457-66. PMID: 17168663.

Kong X, Ge H, Hou L, et al. Induction of apoptosis in K562/ADM cells by gamma-linolenic acid involves lipid peroxidation and activation of caspase-3. Chem Biol Interact. 2006 Aug 25;162(2):140-8. PMID: 16857180.

Jung KC, Park CH, Hwang YH, et al. Fatty acids, inhibitors for the DNA binding of c-Myc/Max dimer, suppress proliferation and induce apoptosis of differentiated HL-60 human leukemia cell. Leukemia. 2006 Jan;20(1):122-7. PMID: 16281068.

Andreassi M, Forleo P, Di Lorio A, et al. Efficacy of gamma-linolenic acid in the treatment of patients with atopic dermatitis. J Int Med Res. 1997 Sep-Oct;25(5):266-74. PMID: 9364289.

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