



LKT Laboratories, Inc.

γ -Linolenic Acid (6c, 9c, 12c)

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Product Information

Product ID L3456

CAS No. 506-26-3

Chemical Name

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

Formula $C_{18}H_{30}O_2$

Formula Wt. 278.43

Melting Point

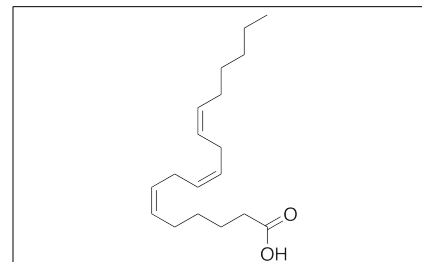
Purity $\geq 98\%$

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.



Pricing and Availability

Bulk quantities available upon request

Product ID	Size	List Price
L3456	10 mg	\$72.00
L3456	25 mg	\$127.40
L3456	100 mg	\$374.60

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.

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