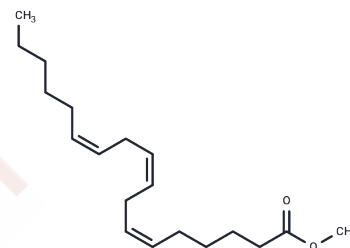


$\gamma$ -Linolenic Acid methyl ester

## Chemical Properties

CAS No. :	16326-32-2
Formula:	C19H32O2
Molecular Weight:	292.46
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



## Biological Description

Description	$\gamma$ -Linolenic Acid methyl ester (Methyl gamma-linolenate) is a weak leukotriene B4 (LTB4) receptor antagonist.
Targets(IC50)	Apoptosis,LTR
In vitro	$\gamma$ -Linolenic acid methyl ester is an esterified version of the free acid which is less water soluble but more amenable for the formulation of GLA-containing diets and dietary supplements. GLA was identified as an $\omega$ -6 fatty acid which could be elongated to arachidonic acid for endogenous eicosanoid synthesis. GLA was found to be a weak leukotriene B4 (LTB4) receptor antagonist, which was able to inhibit [3H]-LTB4 binding to porcine neutrophil membranes with a $K_i$ of 1 $\mu$ M
In vivo	In an in-vivo model of LTB4-induced bronchoconstriction, $\gamma$ -Linolenic acid methyl ester at a 1 mg/kg i.v. dose could result in 53% inhibition, indicating that essential fatty acids are LTB4 receptor antagonists, which may account in part for reported anti-inflammatory activities.

## Solubility Information

Solubility	dimethyl formamide: 100 mg/mL (341.93 mM),Sonication is recommended. DMSO: 100 mg/mL (341.93 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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### Preparing Stock Solutions

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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	3.4193 mL	17.0964 mL	34.1927 mL
5 mM	0.6839 mL	3.4193 mL	6.8385 mL
10 mM	0.3419 mL	1.7096 mL	3.4193 mL
50 mM	0.0684 mL	0.3419 mL	0.6839 mL

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Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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