

Ethyl linolenate

Chemical Properties

CAS No. : 1191-41-9

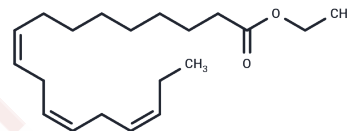
Formula: C₂₀H₃₄O₂

Molecular Weight: 306.48

Storage: Keep away from direct sunlight, Keep away from moisture

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	Ethyl linolenate is a fatty acid ethyl ester that exhibits anti-melanogenic properties by suppressing cellular melanin synthesis with an IC ₅₀ of 70 μM. Ethyl linolenate inhibits forskolin-stimulated melanogenesis and reduces tyrosinase enzymatic activity. Its antimelanogenic profile supports the utilization of Ethyl linolenate in pigmentation disorder research and skin-lightening mechanism studies.
Targets(IC ₅₀)	Melanin-concentrating Hormone Receptor (MCHR), Tyrosinase
In vitro	Ethyl linolenate exhibits significant blocking effects on Forskolin-induced melanogenesis and inhibits tyrosinase activity [1].

Solubility Information

Solubility	DMSO: 160 mg/mL (522.06 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.2629 mL	16.3143 mL	32.6286 mL
5 mM	0.6526 mL	3.2629 mL	6.5257 mL
10 mM	0.3263 mL	1.6314 mL	3.2629 mL
50 mM	0.0653 mL	0.3263 mL	0.6526 mL

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.

Reference

Sungran Huh, et al. Melanogenesis inhibitory effect of fatty acid alkyl esters isolated from Oxalis triangularis. Biol Pharm Bull. 2010;33(7):1242-5.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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