

Methyl Linolenate

Chemical Properties

CAS No. : 301-00-8

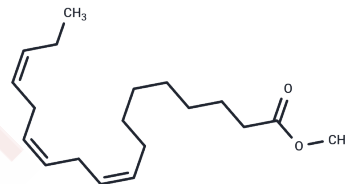
Formula: C19H32O2

Molecular Weight: 292.46

Store at low temperature

Storage: Pure form: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	Methyl Linolenate (Linolenic acid methyl ester) is a polyunsaturated fatty acid (PUFA). It is used in studies on the mechanisms and prevention of oxidation/peroxidation of unsaturated fatty acids.
Targets(IC50)	Others,Melatonin Receptor
In vitro	Melanogenesis inhibitory effect of fatty acid alkyl esters isolated from Oxalis triangularis [1]. Methyl Linolenate could be used as whitening agents in cosmetics and have potential for treating hyperpigmentation disorders in the clinic[2].

Solubility Information

Solubility	DMSO: 100 mg/mL (341.93 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 4 mg/mL (13.68 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
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

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

1. Huh S et al. Melanogenesis inhibitory effect of fatty acid alkyl esters isolated from *Oxalis triangularis*. *Biol Pharm Bull*, 2010, 33(7):1242-5.
Gyeong-A, Shrestha, Sabina, et al. Sageretia thea fruit extracts rich in methyl linoleate and methyl linolenate downregulate melanogenesis via the Akt/GSK3 beta signaling pathway[J]. *Nutrition research and practice*, 2018, 12(1):3-12.

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