

Undecanoic acid

Chemical Properties

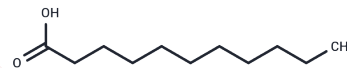
CAS No. : 112-37-8

Formula: C₁₁H₂₂O₂

Molecular Weight: 186.29

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	Undecanoic acid (Hendecanoic acid) is a monocarboxylic acid with antimycotic property. Undecanoic acid inhibits the production of exocellular keratinase, lipase and the biosynthesis of several phospholipids in <i>T. rubrum</i> .
Targets(IC50)	Endogenous Metabolite, Antibacterial, Antifungal

Solubility Information

Solubility	DMSO: 250 mg/mL (1341.99 mM), Sonication is recommended. Ethanol: 25 mg/mL (134.2 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: 2 mg/mL (10.74 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	5.368 mL	26.8399 mL	53.6797 mL
5 mM	1.0736 mL	5.368 mL	10.7359 mL
10 mM	0.5368 mL	2.684 mL	5.368 mL
50 mM	0.1074 mL	0.5368 mL	1.0736 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

Hornung B, et al. Medium chain length fatty acids stimulate triacylglycerol synthesis in tissue culture cells. Biochem Pharmacol. 1992 Jan 22;43(2):175-81.

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