

10-Undecenoic acid

Chemical Properties

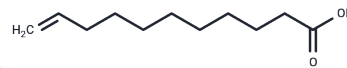
CAS No. : 112-38-9

Formula: C₁₁H₂₀O₂

Molecular Weight: 184.28

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	10-Undecenoic acid (Undecylenic acid) is a natural or synthetic fungistatic fatty acid, with antifungal activity.
Targets(IC50)	Beta Amyloid, Proteasome, Endogenous Metabolite, Antibacterial, Antibiotic, Antifungal, ROS

Solubility Information

Solubility	DMSO: 250 mg/mL (1356.63 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: 2.5 mg/mL (13.57 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	5.4265 mL	27.1326 mL	54.2652 mL
5 mM	1.0853 mL	5.4265 mL	10.853 mL
10 mM	0.5427 mL	2.7133 mL	5.4265 mL
50 mM	0.1085 mL	0.5427 mL	1.0853 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

EREAUX LP, CRAIG GE. Can Med Assoc J. 1949 Oct;61(4):361-4.

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