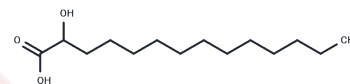


2-hydroxy Myristic Acid

Chemical Properties

CAS No. :	2507-55-3
Formula:	C ₁₄ H ₂₈ O ₃
Molecular Weight:	244.37
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	2-hydroxy Myristic Acid is a hydroxy fatty acid with antiviral activity Inhibits enteroviruses .2-hydroxy Myristic Acid can be used to study viral infections.
Targets(IC50)	Antiviral,Virus Protease

Solubility Information

Solubility	Ethanol: 5 mg/mL (20.46 mM),Sonication is recommended. DMSO: 171.67 mg/mL (702.5 mM),Sonication is recommended. DMF: 5 mg/mL (20.46 mM),Sonication is recommended. Ethanol:PBS (1:2): 0.35 mg/mL (1.43 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: 10 mg/mL (40.92 mM),Suspension. 10% DMSO+90% Saline: < 10 mg/mL (40.92 mM),Lower concentrations may be soluble, but exact solubility limit is unknown. Corn oil: 10 mg/mL (40.92 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	4.0922 mL	20.4608 mL	40.9216 mL
5 mM	0.8184 mL	4.0922 mL	8.1843 mL
10 mM	0.4092 mL	2.0461 mL	4.0922 mL
50 mM	0.0818 mL	0.4092 mL	0.8184 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

I Pascher. Molecular arrangements in sphingolipids. Conformation and hydrogen bonding of ceramide and their implication on membrane stability and permeability. Biochim Biophys Acta. 1976 Dec 2;455(2):433-51.

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