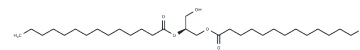


1,2-Dimyristoyl-sn-glycerol

Chemical Properties

CAS No. :	60562-16-5
Formula:	C31H60O5
Molecular Weight:	512.81
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	1,2-Dimyristoyl-sn-glycerol (1,2-DMG) is able to increase AChE activity by 35-40% at concentrations of 25 micrograms/ml in the parasite S. mansoni..
Targets(IC50)	Parasite,Liposome,PKC

Solubility Information

Solubility	Ethanol: 24.15 mg/mL (47.09 mM),Sonication is recommended. H2O: Insoluble DMSO: 5.13 mg/mL (10 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% EtOH+90% Corn Oil: 2 mg/mL (3.9 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	1.950 mL	9.7502 mL	19.5004 mL
5 mM	0.390 mL	1.950 mL	3.9001 mL
10 mM	0.195 mL	0.975 mL	1.950 mL
50 mM	0.039 mL	0.195 mL	0.390 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

Espinoza B, Silman I, Arnon R, Tarrab-Hazdai R. Phosphatidylinositol-specific phospholipase C induces biosynthesis of acetylcholinesterase via diacylglycerol in *Schistosoma mansoni*. *Eur J Biochem*. 1991 Feb 14;195(3):863-70.

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