

1,2-Distearoyl-sn-glycero-3-phosphorylethanolamine

Chemical Properties

CAS No. :	1069-79-0
Formula:	C41H82NO8P
Molecular Weight:	748.065
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-Distearoyl-sn-glycero-3-phosphorylethanolamine (1,2-DSPE) is a phosphatidylethanolamine (PE or GPEtn). The stearic acid moieties are derived from animal fats, cocoa butter, and sesame oil. Phospholipids are ubiquitous in nature and are key components of the lipid bilayer of cells, as well as being involved in metabolism and signaling.
Targets(IC50)	Endogenous Metabolite,Liposome

Solubility Information

Solubility	Chloroform: < 1 mg/mL (insoluble or slightly soluble) DMSO: < 1 mg/mL (insoluble or slightly soluble) (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.3368 mL	6.6839 mL	13.3677 mL
5 mM	0.2674 mL	1.3368 mL	2.6735 mL
10 mM	0.1337 mL	0.6684 mL	1.3368 mL
50 mM	0.0267 mL	0.1337 mL	0.2674 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

McCarley RL. Redox-responsive delivery systems. Annu Rev Anal Chem (Palo Alto Calif). 2012;5:391-411.

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481