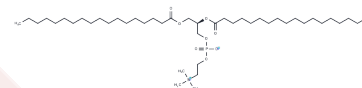


1,2-Distearoyl-sn-glycero-3-phosphorylcholine

Chemical Properties

CAS No. :	816-94-4
Formula:	C44H88NO8P
Molecular Weight:	790.15
Storage:	Store at low temperature Powder: -20°C for 3 years In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i>



Biological Description

Description	1,2-Distearoyl-sn-glycero-3-phosphorylcholine (L-ALPHA-PHOSPHATIDYLCHOLINE, DISTEAROYL) is a cylindrical-shaped lipid used to synthesize liposomes. 1,2-Distearoyl-sn-glycero-3-phosphorylcholine (L-ALPHA-PHOSPHATIDYLCHOLINE, DISTEAROYL) is the lipid component in the lipid nanoparticle (LNP) system.
Targets(IC50)	Others,Liposome

Solubility Information

Solubility	Ethanol: 4 mg/mL (5.06 mM),Sonication and heating are recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.2656 mL	6.3279 mL	12.6558 mL
5 mM	0.2531 mL	1.2656 mL	2.5312 mL
10 mM	0.1266 mL	0.6328 mL	1.2656 mL
50 mM	0.0253 mL	0.1266 mL	0.2531 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

Andrew D Miller. Delivery of RNAi therapeutics: work in progress. Expert Rev Med Devices. 2013 Nov;10(6):781-811.

Jayesh A Kulkarni, et al. On the role of helper lipids in lipid nanoparticle formulations of siRNA. Nanoscale. 2019 Nov 21;11(45):21733-21739.

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