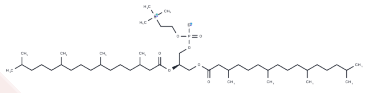
Data Sheet (Cat.No.T64561)

DPhPC

Chemical Properties



CAS No. : 207131-40-6

Formula: C48H96NO8P

Molecular Weight: 846.25

Storage: Store at low temperature
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	DPhPC is a synthetic liposome used to synthesize liposomes commonly used in artificial membrane matrices.DPhPC bilayers do not allow ion leakage in the absence of pore/ion channels.DPhPC can be used to study channel proteins and membrane structure.
Targets(IC50)	Others,Liposome

Solubility Information

Solubility	DMSO: 6.43 mg/mL (7.6 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Saline: 0.64 mg/mL (0.76 mM),Solution. *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.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.1817 mL	5.9084 mL	11.8168 mL
5 mM	0.2363 mL	1.1817 mL	2.3634 mL
10 mM	0.1182 mL	0.5908 mL	1.1817 mL
50 mM	0.0236 mL	0.1182 mL	0.2363 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

Schmidt D, et, al. A gating model for the archeal voltage-dependent K(+) channel KvAP in DPhPC and POPE:POPG decane lipid bilayers. J Mol Biol. 2009 Jul 31;390(5):902-12.

Andersson M, et, al. Vesicle and bilayer formation of diphytanoylphosphatidylcholine (DPhPC) and diphytanoylphosphatidylethanolamine (DPhPE) mixtures and their bilayers' electrical stability. Colloids Surf B Biointerfaces. 2011 Feb 1;82(2):550-61.

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