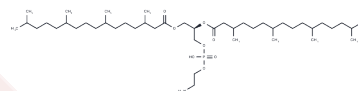


## 1,2-Diphytanoyl-Sn-Glycero-3-Phosphoethanolamine

## Chemical Properties

CAS No. :	201036-16-0
Formula:	C45H90NO8P
Molecular Weight:	804.17
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-Diphytanoyl-Sn-Glycero-3-Phosphoethanolamine is a neutral phosphatidylethanolamine lipid composed of a polyisopentenyl alkyl chain and a phosphonate ligand containing two pyridine groups. 1,2-Diphytanoyl-Sn-Glycero-3-Phosphoethanolamine is commonly used in the preparation of liposomes and to enhance the efficiency of gene delivery in vivo and in vitro.
Targets(IC50)	Liposome

## Solubility Information

Solubility	DMSO: 200 mg/mL (248.7 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.2435 mL	6.2176 mL	12.4352 mL
5 mM	0.2487 mL	1.2435 mL	2.487 mL
10 mM	0.1244 mL	0.6218 mL	1.2435 mL
50 mM	0.0249 mL	0.1244 mL	0.2487 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

Park, H., et al. Cationic lipid nanoparticles for nucleic acid delivery: microfluidics versus thin film hydration. J. Pharm. Investig. 56, 343-356 (2026).

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