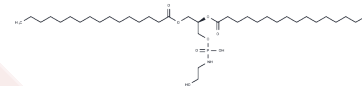


## 1,2-Dipalmitoyl-sn-glycero-3-phosphoethanolamine

## Chemical Properties

CAS No. :	923-61-5
Formula:	C37H74NO8P
Molecular Weight:	691.96
Storage:	Store at low temperature Powder: -20°C for 3 years   In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



## Biological Description

Description	1,2-Dipalmitoyl-sn-glycero-3-phosphoethanolamine (DPPE), a phospholipid member of the glycerophosphoethanolamine family, is a major component in biological membranes. Studies have shown that cholesterol induces condensation of DPPE monolayers in the presence of Ca <sup>2+</sup> ions, leading to more ordered lipid tails and resulting in a thicker membrane.
Targets(IC50)	Endogenous Metabolite

## Solubility Information

Solubility	DMSO: Insoluble, H <sub>2</sub> O: Insoluble, ( $< 1$ mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.4452 mL	7.2259 mL	14.4517 mL
5 mM	0.289 mL	1.4452 mL	2.8903 mL
10 mM	0.1445 mL	0.7226 mL	1.4452 mL
50 mM	0.0289 mL	0.1445 mL	0.289 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

Leekumjorn S, et al. Molecular simulation study of structural and dynamic properties of mixed DPPC/DPPE bilayers. Biophys J. 2006 Jun 1;90(11):3951-65.

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