

DPhPC

Cat. No.: HY-143202 CAS No.: 207131-40-6 Molecular Formula: C48H96NO8P Molecular Weight: 846.25

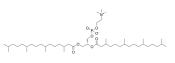
Target: **Biochemical Assay Reagents**

Pathway: Others

Storage: -20°C, protect from light, stored under nitrogen

* In solvent: -80°C, 6 months; -20°C, 1 month (protect from light, stored under

nitrogen)



Product Data Sheet

SOLVENT & SOLUBILITY

In Vitro

DMSO: 3.57 mg/mL (4.22 mM; ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg
	1 mM	1.1817 mL	5.9084 mL	11.8168 mL
	5 mM			
	10 mM			

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

DPhPC is a phospholipid used to synthesize bilayer vesicles. DPhPC bilayers do not permit ions to leak in the absence of a pore/ion channel, which can be used for studies on channel proteins^{[1][2]}.

REFERENCES

[1]. 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.

[2]. 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.

 $\label{lem:caution:Product} \textbf{Caution: Product has not been fully validated for medical applications. For research use only.}$

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