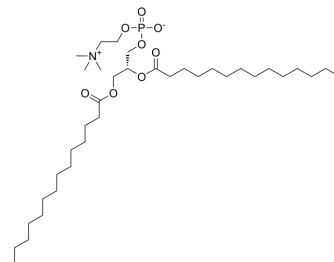


1,2-Dimyristoyl-sn-glycero-3-phosphocholine

Cat. No.:	HY-109541
CAS No.:	18194-24-6
Molecular Formula:	C ₃₆ H ₇₂ NO ₈ P
Molecular Weight:	677.93
Target:	Liposome
Pathway:	Metabolic Enzyme/Protease
Storage:	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro

Ethanol : 50 mg/mL (73.75 mM; Need ultrasonic)
DMSO : < 1 mg/mL (ultrasonic;warming;heat to 60°C) (insoluble or slightly soluble)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	1.4751 mL	7.3754 mL	14.7508 mL
	5 mM	0.2950 mL	1.4751 mL	2.9502 mL
	10 mM	0.1475 mL	0.7375 mL	1.4751 mL

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

In Vivo

- Add each solvent one by one: 10% EtOH >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 5 mg/mL (7.38 mM); Clear solution
- Add each solvent one by one: 10% EtOH >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 5 mg/mL (7.38 mM); Clear solution
- Add each solvent one by one: 10% EtOH >> 90% corn oil
Solubility: ≥ 5 mg/mL (7.38 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

1,2-Dimyristoyl-sn-glycero-3-phosphocholine (DMPC) is a synthetic phospholipid used in liposomes. 1,2-Dimyristoyl-sn-glycero-3-phosphocholine is used for the study of lipid monolayers and bilayers^[1].

REFERENCES

- [1]. Iwona Budziak, et al. Effect of polyols on the DMPC lipid monolayers and bilayers. *Biochim Biophys Acta Biomembr.* 2018 Nov;1860(11):2166-2174.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA