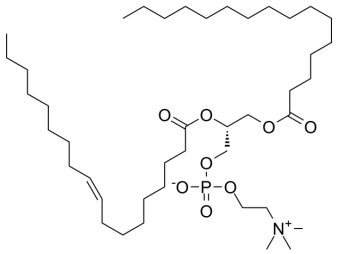
1-Palmitoyl-2-oleoyl-sn-glycero-3-PC

Cat. No.:	HY-130462
CAS No.:	26853-31-6
Molecular Formula:	$C_{42}H_{82}NO_8P$
Molecular Weight:	760.08
Target:	Liposome
Pathway:	Metabolic Enzyme/Protease
Storage:	-20°C, stored under nitrogen * In solvent : -80°C, 6 months; -20°C, 1 month (stored under nitrogen)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (131.57 mM; Need ultrasonic)
Ethanol : 50 mg/mL (65.78 mM; Need ultrasonic)

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	1.3157 mL	6.5783 mL	13.1565 mL
5 mM	0.2631 mL	1.3157 mL	2.6313 mL
10 mM	0.1316 mL	0.6578 mL	1.3157 mL

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

In Vivo

1. Add each solvent one by one: 10% EtOH >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 1.25 mg/mL (1.64 mM); Clear solution
2. Add each solvent one by one: 10% EtOH >> 90% (20% SBE-β-CD in saline)
   Solubility: 1.25 mg/mL (1.64 mM); Suspended solution; Need ultrasonic
3. Add each solvent one by one: 10% EtOH >> 90% corn oil
   Solubility: ≥ 1.25 mg/mL (1.64 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

1-Palmitoyl-2-oleoyl-sn-glycero-3-PC (POPC), a phospholipid, is a major component of biological membranes. 1-Palmitoyl-2-oleoyl-sn-glycero-3-PC is used for the preparation of liposomes and studying the properties of lipid bilayers[1].

In Vitro

1-Palmitoyl-2-oleoyl-sn-glycero-3-PC (POPC) is a phospholipid containing 16:0 and 18:1 fatty acids at the sn-1 and sn-2 positions, respectively[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Patent. US20200376146A1.
- Patent. US20200376102A1.

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REFERENCES

[1]. Moreno MJ, et al. Translocation of phospholipids and dithionite permeability in liquid-ordered and liquid-disordered membranes. Biophys J. 2006 Aug 1;91(3):873-81.

[2]. Ferreira TM, et al. Cholesterol and POPC segmental order parameters in lipid membranes: solid state 1H-13C NMR and MD simulation studies. Phys Chem Chem Phys. 2013 Feb 14;15(6):1976-89.

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