1,2-Dioleoyl-sn-glycero-3-phosphate, sodium salt

Cat. No.: HY-111915

CAS No.: 108392-02-5

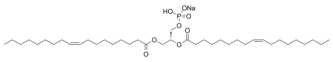
Molecular Formula: $C_{39}H_{72}NaO_8P$

Molecular Weight: 722.95

Target: Liposome

Pathway: Metabolic Enzyme/Protease

Storage: 4°C, sealed storage, away from moisture and light
* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



SOLVENT & SOLUBILITY

In Vitro

Methanol : 10 mg/mL (13.83 mM; Need ultrasonic)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	1.3832 mL	6.9161 mL	13.8322 mL
	5 mM	0.2766 mL	1.3832 mL	2.7664 mL
	10 mM	0.1383 mL	0.6916 mL	1.3832 mL

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

BIOLOGICAL ACTIVITY

Description

1,2-Dioleoyl-sn-glycero-3-phosphate sodium salt (18:1 PA) is an anionic lipid that can be used to prepare liposomes, micelles and artificial membranes[1][2].

In Vitro

1,2-Dioleoyl-sn-glycero-3-phosphate, sodium salt (DOPA) can be used to prepare Zol-Ca complex nanoparticle formulations to improve the delivery of Zol in mouse tumor models and enhance its distribution[1].

?1,2-Dioleoyl-sn-glycero-3-phosphate, sodium salt (DOPA) can be used in combination with a fluorescent dye, calcium phosphate, to enhance its adsorption on the bacterial surface, deliver fluorescent groups and target the biofilm of S. aureus to enhance its biofilm staining ability[2].

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

REFERENCES

[1]. Xu Li, et al. Reverse Microemulsion-Based Synthesis of (Bis)phosphonate-Metal Materials with Controllable Physical Properties: An Example Using Zoledronic Acid-Calcium Complexes.

[2]. Ignacio Rivero Berti, et al. Delivery of fluorophores by calcium phosphate-coated nanoliposomes and interaction with Staphylococcus aureus biofilms. Colloids Surf B Biointerfaces. 2016 Jun 1;142:214-222.

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