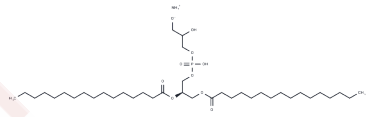
# Data Sheet (Cat.No.TCL-02204)

TargetMol

## 1,2-Dipalmitoyl-sn-glycero-3-phosphoglycerol ammonium salt

### Chemical Properties



CAS No. : 1373168-73-0

Formula: C38H78NO10P

Molecular Weight: 740

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

### Biological Description

| | |
|---|---|
| Description | 1,2-Dipalmitoyl-sn-glycero-3-phosphoglycerol (ammonium salt) is a negatively charged glycerophospholipid composed of two palmitic acid chains; 1,2-Dipalmitoyl-sn-glycero-3-phosphoglycerol (ammonium salt, DPPG) is commonly used in the construction of liposomes and model biological membrane systems. Its anionic properties help regulate membrane surface charge and influence protein-membrane interactions, making it of significant value in research on pulmonary surfactants and drug delivery systems. |
| Targets(IC50) | Liposome |

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|---|---|---|---|
| 1 mM | 1.3514 mL | 6.7568 mL | 13.5135 mL |
| 5 mM | 0.2703 mL | 1.3514 mL | 2.7027 mL |
| 10 mM | 0.1351 mL | 0.6757 mL | 1.3514 mL |
| 50 mM | 0.027 mL | 0.1351 mL | 0.2703 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


Perino J, et al. Lung surfactant DPPG phospholipid inhibits vaccinia virus infection. Antiviral Res. 2011 Jan;89(1):89-97.

Sahin I, et al. Ruscogenin interacts with DPPC and DPPG model membranes and increases the membrane fluidity: FTIR and DSC studies. Arch Biochem Biophys. 2023 Jan 1;733:109481.

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