Product Information

1-Palmitoyl-3-oleoyl-sn-glycero-2-PE
Item No. 15104

CAS Registry No.: 884324-34-9
Formal Name: 1-palmitoyl-3-oleoyl-sn-glycero-2-phosphatidylethanolamine
Synonyms: 1-Palmitoyl-3-oleoyl-sn-glycero-2-Phosphoethanolamine, 1,3-POPE
MF: C_{39}H_{76}NO_{8}P
FW: 718.0
Purity: ≥98%
Stability: ≥2 years at -20°C
Supplied as: A crystalline solid

Laboratory Procedures

For long term storage, we suggest that 1-Palmitoyl-3-oleoyl-sn-glycero-2-PE (1,3-POPE) be stored as supplied at -20°C. It should be stable for at least two years.

1,3-POPE is supplied as a crystalline solid. A stock solution may be made by dissolving the 1,3-POPE in the solvent of choice. 1,3-POPE is soluble in chloroform at a concentration of approximately 3 mg/ml.

1,3-POPE is sparingly soluble in aqueous solutions. To enhance aqueous solubility, dilute the organic solvent solution into aqueous buffers or isotonic saline. If performing biological experiments, ensure the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. We do not recommend storing the aqueous solution for more than one day.

Phosphatidylethanolamines (PEs) are phospholipids found in biological membranes that serve both structural and functional roles. Different types of PEs are commonly used in the generation of micelles, liposomes, and other types of artificial membranes. 1,3-POPE is a phospholipid containing palmitic acid inserted at the sn-1 position, oleic acid at the sn-3 position, and PE at the sn-2 site.

References


Related Products

For a list of related products please visit: [www.caymanchem.com/catalog/15104](http://www.caymanchem.com/catalog/15104)

**WARNING:** This product is for laboratory research only; not for administration to humans, not for human or veterinary diagnostic or therapeutic use.

**SAFETY DATA**

This material should be considered hazardous until information to the contrary becomes available. Do not ingest, swallow, or inhale. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. This information contains some, but not all, of the information required for the safe and proper use of this material. Before use, the user must review the complete Safety Data Sheet, which has been sent to our email to your institution.

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Cayman Chemical Company makes no warranty or guarantee of any kind, whether written or oral, expressed or implied, including without limitation, any warranty of fitness for a particular purpose, suitability and merchantability, which extends beyond the description of the chemicals hereof. Cayman warrants only to the original customer that the material will meet our specifications of any kind, whether in tort (including negligence) or in contract, for any direct, indirect, accidental or consequential damages, even if Cayman is informed about their possible existence.

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