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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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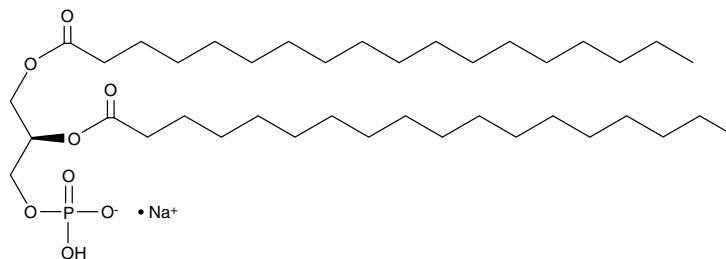
Product Information



1,2-Distearoyl-*sn*-glycero-3-phosphate (sodium salt)

Item No. 15083

CAS Registry No.: 108321-18-2
Formal Name: 1,2-distearoyl-*sn*-glycero-3-phosphate, monosodium salt
Synonym: DSPA
MF: C₃₉H₇₆O₈P • Na
FW: 727.0
Purity: ≥98%
Stability: ≥2 years at -20°C
Supplied as: A crystalline solid



Laboratory Procedures

For long term storage, we suggest that 1,2-distearoyl-*sn*-glycero-3-phosphate (DSPA) (sodium salt) be stored as supplied at -20°C. It should be stable for at least two years.

DSPA (sodium salt) is supplied as a crystalline solid. A stock solution may be made by dissolving the DSPA (sodium salt) in the solvent of choice. DSPA (sodium salt) is soluble in chloroform at a concentration of approximately 1.6 mg/ml.

DSPA (sodium salt) 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.

DSPA is a phospholipid containing a phosphatidic acid head group and 18:0 fatty acids at the *sn*-1 and *sn*-2 positions of the glycerol backbone. This negatively charged phospholipid has been used to study the dynamics of model lipid bilayers.¹⁻²

References

1. Li, S., Stein, A.J., Kruger, A., *et al.* Head groups of lipids govern the interaction and orientation between graphene oxide and lipids. *J. Phys. Chem.* **117**, 16150-16158 (2013).
2. Bhagat, M. and Sofou, S. Membrane heterogeneities and fusogenicity in phosphatidylcholine-phosphatidic acid rigid vesicles as a function of pH and lipid chain mismatch. *Langmuir* **26**(3), 1666-1673 (2010).

Related Products

For a list of related products please visit: www.caymanchem.com/catalog/15083

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 via email to your institution.

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