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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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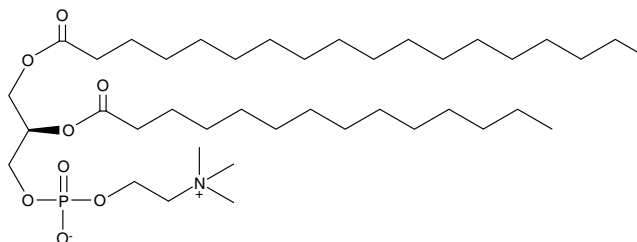
Product Information



1-Stearoyl-2-myristoyl-*sn*-glycero-3-PC

Item No. 15103

CAS Registry No.: 20664-02-2
Formal Name: 1-Stearoyl-2-myristoyl-*sn*-glycero-3-phosphatidylcholine
Synonyms: SMPC, 1-Stearoyl-2-Myristoyl-*sn*-glycero-3-Phosphocholine
MF: C₄₀H₈₀NO₈P
FW: 734.1
Purity: ≥98%
Stability: ≥2 years at -20°C
Supplied as: A crystalline solid



Laboratory Procedures

For long term storage, we suggest that 1-stearoyl-2-myristoyl-*sn*-glycero-3-PC (SMPC) be stored as supplied at -20°C. It should be stable for at least two years.

SMPC is supplied as a crystalline solid. A stock solution may be made by dissolving the SMPC in the solvent of choice. SMPC is soluble in ethanol at a concentration of approximately 25 mg/ml.

SMPC 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.

SMPC belongs to the class of asymmetric phospholipids, which have two chains of unequal length attached to the glycerol backbone. SMPC is abundant in biological membranes where it can interdigitate with equal length (symmetric) acyl chain phospholipids in bilayer membranes to potentially minimize the hydrophobic mismatch between acyl chains.¹

Reference

1. Huyrup, P., Mouritsen, O.G., and Jürgensen, K. Phospholipase A₂ activity towards vesicles of DPPC and DMPC-DSPC containing small amounts of SMPC. *Biochim. Biophys. Acta* **1515(2)**, 133-143 (2001).

Related Products

For a list of related products please visit: www.caymanchem.com/catalog/15103

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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