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Produktinformation



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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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PRODUCT INFORMATION



1,2-Distearoyl-d₃₅-sn-glycero-3-PC

Item No. 28752

CAS Registry No.: 56952-01-3

Formal Name: (7R)-3,5,9-trioxa-4-phosphaheptacosan-11,11,12,12,13,13,14,14,15,15,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23,24,24,25,25,26,26,27,27,27-d₃₅-1-aminium, 4-hydroxy-N,N,N-trimethyl-10-oxo-7-[(1-oxooctadecyl-2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16,17,17,18,18,18-d₃₅)oxy], inner salt, 4-oxide

Synonyms: 1,2-Distearoyl-d₃₅-sn-glycero-3-Phosphatidylcholine, 1,2-Distearoyl-d₃₅-sn-glycero-3-Phosphocholine, 1,2-DSPC-d₇₀, PC(18:0-d₃₅/18:0-d₃₅), 18:0-d₃₅/18:0-d₃₅-PC

MF: C₄₄H₁₈D₇₀NO₈P

FW: 860.6

Chemical Purity: ≥98% (1,2-Distearoyl-sn-glycero-3-PC)

Deuterium

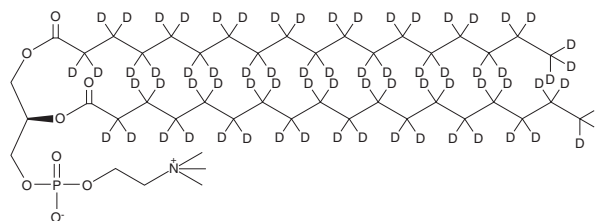
Incorporation: ≥99% deuterated forms (d₁-d₃₅); ≤1% d₀

Supplied as: A crystalline solid

Storage: -20°C

Stability: ≥2 years

Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.



Laboratory Procedures

1,2-Distearoyl-d₃₅-sn-glycero-3-PC is intended for use as an internal standard for the quantification of 1,2-distearoyl-sn-glycero-3-PC (Item No. 15100) by GC- or LC-MS. The accuracy of the sample weight in this vial is between 5% over and 2% under the amount shown on the vial. If better precision is required, the deuterated standard should be quantitated against a more precisely weighed unlabeled standard by constructing a standard curve of peak intensity ratios (deuterated versus unlabeled).

1,2-Distearoyl-d₃₅-sn-glycero-3-PC is supplied as a crystalline solid. A stock solution may be made by dissolving the 1,2-distearoyl-d₃₅-sn-glycero-3-PC in the solvent of choice, which should be purged with an inert gas. 1,2-Distearoyl-d₃₅-sn-glycero-3-PC is soluble in the organic solvent ethanol at a concentration of approximately 30 mg/ml.

Description

1,2-Distearoyl-sn-glycero-3-PC is a phospholipid containing the saturated long-chain (18:0) fatty acid stearic acid (Item No. 10011298) inserted at the sn-1 and sn-2 positions. It is commonly used in the generation of micelles, liposomes, and other types of artificial membranes.^{1,2}

References

- Hoyrup, P., Mouritsen, O.G., and Jorgensen, K. Phospholipase A₂ activity towards vesicles of DPPC and DMPC-DSPC containing small amounts of SMPC. *Biochim. Biophys. Acta.* **1515(2)**, 133-143 (2001).
- Heberle, F.A. and Feigenson, G.W. Phase separation in lipid membranes. *Cold Spring Harb. Perspect. Biol.* **3(4)**, 1-13 (2011).

WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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