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Produktinformation



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Diagnostik & molekulare Diagnostik



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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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PRODUCT INFORMATION



1-Palmitoyl-d₉-2-Palmitoyl-*sn*-glycero-3-PG

Item No. 28953

Formal Name: (2R)-3-(((R)-2,3-dihydroxypropoxy)(hydroxy)phosphoryl)oxy)-2-(palmitoyloxy)propyl hexadecanoate-13,13,14,14,15,15,16,16,16-d₉

Synonyms: 1-Hexanoyl-d₉-2-hexanoyl-*sn*-glycero-3-phosphatidylglycerol, 1-Hexanoyl-d₉-2-hexanoyl-*sn*-glycero-3-phosphoglycerol, 1-Palmitoyl-d₉-2-Palmitoyl-*sn*-glycero-3-phosphatidylglycerol, 1-Palmitoyl-d₉-2-Palmitoyl-*sn*-glycero-3-phosphoglycerol, 16:0-d₉/16:0-PG, PG(16:0-d₉/16:0)

MF: C₃₈H₆₆D₉O₁₀P

FW: 732.0

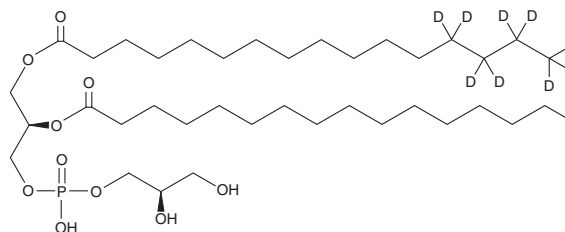
Chemical Purity: ≥95% (1,2-Dipalmitoyl-*sn*-glycero-3-PG Deuterium

Incorporation: ≥99% deuterated forms (d₁-d₉); ≤1% d₀

Supplied as: A solution in chloroform

Storage: -20°C

Stability: ≥3 years



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

Laboratory Procedures

1-Palmitoyl-d₉-2-palmitoyl-*sn*-glycero-3-PG is intended for use as an internal standard for the quantification of 1,2-dipalmitoyl-*sn*-glycero-3-PG (1,2-DPPG; Item No. 15086) 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).

Description

1,2-DPPG is a phospholipid containing the long-chain (16:0) palmitic acid inserted at the *sn*-1 and *sn*-2 positions. It can be used in the generation of micelles, liposomes, and other types of artificial membranes.^{1,2}

References

1. Ege, C. and Lee, K.Y.C. Insertion of Alzheimer's Aβ40 peptide into lipid monolayers. *Biophys. J.* **87**(3), 1732-1740 (2004).
2. Mansour, H.M. and Zografi, G. The relationship between water vapor absorption and desorption by phospholipids and bilayer phase transitions. *J. Pharm. Sci.* **96**(2), 377-396 (2007).

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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