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siehe unsere Liefer- und Versandbedingungen

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- Trockeneiszuschlag
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- Expressversand

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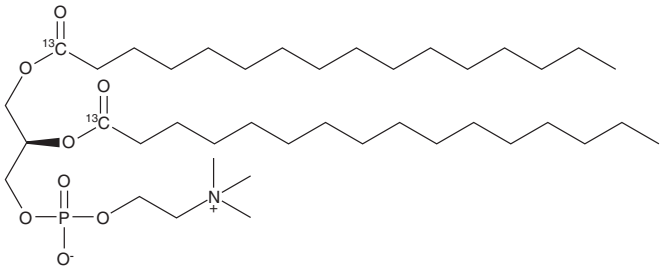
PRODUCT INFORMATION

1,2-Dipalmitoyl-^{13}C-*sn*-glycero-3-PC

Item No. 29133

CAS Registry No.: 65277-91-0
Formal Name: (R)-4-hydroxy-N,N,N-trimethyl-10-oxo-7-[(1-oxohexadecyl-1-^{13}C)oxy]-3,5,9-trioxa-4-phosphapentacosan-1-aminium-10-^{13}C, 4-oxide, inner salt
Synonyms: 1,2-Dihexadecanoyl-^{13}C-*sn*-glycero-3-Phosphatidylcholine, 1,2-Dihexadecanoyl-^{13}C-*sn*-glycero-3-Phosphocholine, DPPC-$^{13}C_2$, 16:0-^{13}C/16:0-^{13}C-PC, PC(16:0-^{13}C/16:0-^{13}C)
MF: $C_{38}[^{13}C]_2H_{80}NO_8P$
FW: 736.0
Purity: ≥95%
Supplied as: A 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-Dipalmitoyl-^{13}C-*sn*-glycero-3-PC is supplied as a solid. A stock solution may be made by dissolving the 1,2-dipalmitoyl-^{13}C-*sn*-glycero-3-PC in the solvent of choice, which should be purged with an inert gas. 1,2-Dipalmitoyl-^{13}C-*sn*-glycero-3-PC is soluble in the organic solvent ethanol at a concentration of approximately 30 mg/ml.

Description

1,2-Dipalmitoyl-^{13}C-*sn*-glycero-3-PC is intended for use as an internal standard for the quantification of 1,2-dipalmitoyl-*sn*-glycero-3-PC (Item No. 10009473) by GC- or LC-MS. 1,2-Dipalmitoyl-*sn*-glycero-3-PC (DPPC) is a zwitterionic glycerophospholipid commonly used in the formation of lipid monolayers, bilayers, and liposomes for use in a variety of applications.[1-4] It has been used in the formation of proteoliposomes for implantation of γ-glutamyl transpeptidase into human erythrocyte membranes.[3] Incorporation of glycosphingolipid antigens into DPPC-containing liposomes increases the immunogenicity of the antigens in mice.[4]

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. Leekumjorn, S. and Sum, A.K. Molecular simulation study of structural and dynamic properties of mixed DPPC/DPPE bilayers. *Biophys. J.* **90(11)**, 3951-3965 (2006).
3. Kalra, V.K., Sikka, S.C., and Sethi, G.S. Transport of amino acids in γ-glutamyl transpeptidase-implanted human erythrocytes. *J. Biol. Chem.* **256(11)**, 5567-5571 (1981).
4. Uemura, A., Watarai, S., Iwasaki, T., *et al.* Induction of immune responses against glycosphingolipid antigens: Comparison of antibody responses in mice immunized with antigen associated with liposomes prepared from various phospholipids. *J. Vet. Med. Sci.* **67(12)**, 1197-1201 (2005).

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