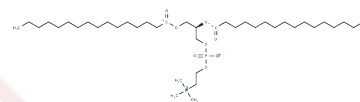


1,2-Dipalmitoyl-13C-sn-glycero-3-PC

Chemical Properties

CAS No. :	65277-91-0
Formula:	C40H80NO8P
Molecular Weight:	736.037
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	1,2-Dipalmitoyl-13C-sn-glycero-3-PC is intended for use as an internal standard for the quantification of 1,2-dipalmitoyl-sn-glycero-3-PC by GC- or LC-MS. 1,2-Dipalmitoyl-sn-glycero-3-PC (T7773) (DPPC) is a zwitterionic glycerophospholipid commonly used in the formation of lipid monolayers, bilayers, and liposomes for use in a variety of applications. ^{1,2,3,4} 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
Targets(IC50)	Endogenous Metabolite,Liposome

Solubility Information

Solubility	Ethanol: 30 mg/mL (40.76 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.3586 mL	6.7931 mL	13.5862 mL
5 mM	0.2717 mL	1.3586 mL	2.7172 mL
10 mM	0.1359 mL	0.6793 mL	1.3586 mL
50 mM	0.0272 mL	0.1359 mL	0.2717 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Ege, C., and Lee, K.Y.C. Insertion of Alzheimer's A β 40 peptide into lipid monolayers. *Biophys. J.* 87(3), 1732-1740 (2004).

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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).

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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