
Product Data Sheet

Product Name: 1,2-Diphytanoyl-sn-glycero-3-PC

Cat. No.: GC18433

Chemical Properties

Cas. No. 207131-40-6

Chemical Name (7R)-4-hydroxy-N,N,N,12,16,20,24-heptamethyl-10-oxo-7-[(3,7,11,15-tetramethyl-1-oxohexadecyl)oxy]-3,5,9-trioxa-4-phosphapentacosan-1-aminium, 4-oxide, inner salt

SMILES O=C(CC(C)CCCC(C)CCCC(C)CCCC(C)C)OC[C@@H](OC(CC(C)CCCC(C)CCCC(C)CCCC(C)C)=O)COP([O-])(OCC[N+](C)(C)C)=O

Formula	C ₄₈ H ₉₆ NO ₈ P	M.Wt	846.3
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Solubility	DMSO : 3.57 mg/mL (4.22 mM; ultrasonic and warming and heat to 60°C)	Storage	Store at -20°C
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General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure

Background

1,2-Diphytanoyl-sn-glycero-3-PC is a phospholipid containing the tetramethylated long-chain (16:0) diphytanic acid at the sn-1 and sn-2 positions. It has been used in the creation of lipid bilayer membranes. 1,2-Diphytanoyl-sn-glycero-3-PC, in combination with LPS, has been used to form the outer leaflet of a tethered bilayer lipid membrane as a model system to examine the effect of antibiotics on Gram-negative bacteria membranes.

Caution: Product has not been fully validated for medical applications. For research use only.

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