PRODUCT INFORMATION

1,2-Dipalmitoyl-sn-glycero-3-PC
Item No. 10009473

CAS Registry No.: 63-89-8
Formal Name: (7R)-4-hydroxy-N,N,N-trimethyl-10-oxo-7-[(1-oxohexadecyl)oxy]-3,5,9-trioxa-4-phosphapentacosan-1-aminium 4-oxide, inner salt
Synonyms: 1,2-DPPC, 1,2-Dipalmitoyl-sn-glycero-3-Phosphatidylcholine, L-Dipalmitoyl Lecithin, 16:0/16:0-PC, PC(16:0/16:0)
MF: C₄₀H₈₀NO₈P
FW: 734.1
Purity: ≥98%
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-Dipalmitoyl-sn-glycero-3-PC (1,2-DPPC) is supplied as a crystalline solid. A stock solution may be made by dissolving the 1,2-DPPC in the solvent of choice, which should be purged with an inert gas. 1,2-DPPC is soluble in the organic solvent ethanol at a concentration of approximately 30 mg/ml.

Description

1,2-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 1,2-DPPC-containing liposomes increases the immunogenicity of the antigens in mice.⁴

References