

PRODUCT INFORMATION



1,2-Dioleoyl-*sn*-glycero-3-PC

Item No. 15098

CAS Registry No.: 4235-95-4

Formal Name: 1,2-dioleoyl-*sn*-glycero-3-phosphatidylcholine

Synonyms: *sn*-3-Dioleoyllecithin, 1,2-Dioleoyl-*sn*-glycero-3-Phosphocholine, 1,2-DOPC, PDD 111

MF: C₄₄H₈₄NO₈P

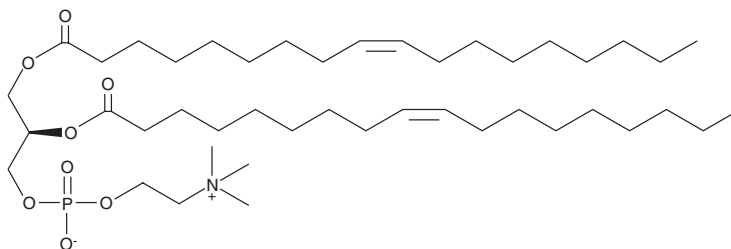
FW: 786.1

Purity: ≥98%

Supplied as: A crystalline solid

Storage: -20°C

Stability: As supplied, 2 years from the QC date provided on the Certificate of Analysis, when stored properly



Laboratory Procedures

1,2-DOPC is supplied as a crystalline solid. A stock solution may be made by dissolving the 1,2-DOPC in the solvent of choice. 1,2-DOPC is soluble in ethanol at a concentration of approximately 25 mg/ml.

Description

1,2-DOPC is a phospholipid containing the unsaturated long-chain (18:1) oleic acid inserted at the *sn*-1 and *sn*-2 positions. It is commonly used alone, or with other components, in the generation of micelles, liposomes, and other types of artificial membranes.¹⁻³

References

1. Konyakhina, T.M., Goh, S.L., Amazon, J., *et al.* Control of a nanoscopic-to-macroscopic transition: Modulated phases in four-component DSPC/DOPC/POPC/Chol giant unilamellar vesicles. *Biophys. J.* **101(2)**, L8-L10 (2011).
2. Rasch, M.R., Yu, Y., Bosoy, C., *et al.* Chloroform-enhanced incorporation of hydrophobic gold nanocrystals into dioleoylphosphatidylcholine (DOPC) vesicle membranes. *Langmuir* **28(36)**, 12971-12981 (2012).
3. Aguilar, L.F., Pino, J.A., Soto-Arriaza, M.A., *et al.* Differential dynamic and structural behavior of lipid-cholesterol domains in model membranes. *PLoS One* **7(6)**, e40254 (2012).

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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