

PRODUCT INFORMATION



1-Stearoyl-2-hydroxy-*sn*-glycero-3-PG (sodium salt)

Item No. 20964

CAS Registry No.: 326495-23-2

Formal Name: octadecanoic acid (2R)-3-[[[(2,3-dihydroxypropoxy)hydroxyphosphinyl]oxy]-2-hydroxypropyl ester, monosodium salt

Synonyms: 18:0 Lyso-PG, 1-Stearoyl-2-hydroxy-*sn*-glycero-3-phosphoglycerol, 1-Stearoyl-2-hydroxy-*sn*-glycero-3-phospho-(1'-*rac*-glycerol)

MF: C₂₄H₄₈O₉P • Na

FW: 534.6

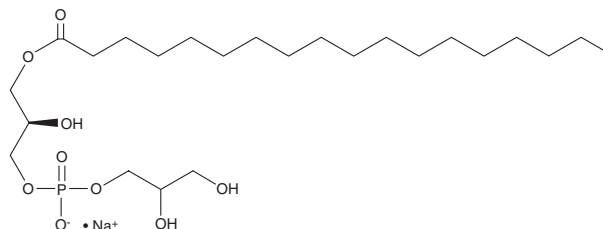
Purity: ≥95%

UV/Vis.: λ_{max}: 246 nm

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-Stearoyl-2-hydroxy-*sn*-glycero-3-PG (sodium salt) is supplied as a crystalline solid. A stock solution may be made by dissolving the 1-stearoyl-2-hydroxy-*sn*-glycero-3-PG (sodium salt) in the solvent of choice. 1-Stearoyl-2-hydroxy-*sn*-glycero-3-PG (sodium salt) is soluble in the organic solvent chloroform, which should be purged with an inert gas, at a concentration of approximately 2 mg/ml.

Description

1-Stearoyl-2-hydroxy-*sn*-glycero-3-PG is a lysophospholipid containing stearic acid (18:0) at the *sn*-1 position. It can be used in the generation of micelles, liposomes, and other types of artificial membranes, including lipid-based drug carrier systems.^{1,2}

References

1. Jeschek, D., Lhota, G., Wallner, J., *et al.* A versatile, quantitative analytical method for pharmaceutical relevant lipids in drug delivery systems. *J. Pharm. Biomed. Anal.* **119**, 37-44 (2016).
2. Stark, B., Debbage, P., Andrae, F., *et al.* Association of vasoactive intestinal peptide with polymer-grafted liposomes: Structural aspects for pulmonary delivery. *Biochim. Biophys. Acta* **1768**(3), 704-714 (2007).

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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