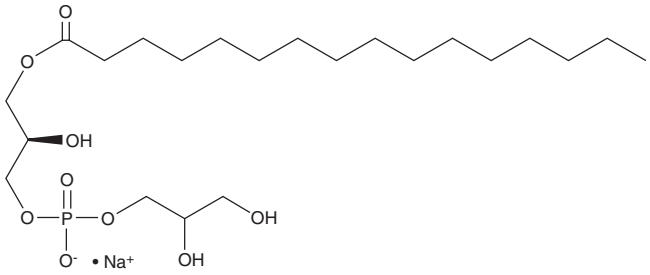
PRODUCT INFORMATION

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

Item No. 20961

CAS Registry No.: 326495-22-1
Formal Name: hexadecanoic acid, (2R)-3-[[(2,3-dihydroxypropoxy)hydroxyphosphinyl]oxy]-2-hydroxypropyl ester, monosodium salt
Synonyms: 16:0 Lyso-PG, 1-Palmitoyl-2-hydroxy-*sn*-glycero-3-phospho-(1'-*rac*-glycerol), 1-Palmitoyl-2-hydroxy-*sn*-glycero-3-phosphoglycerol
MF: $C_{22}H_{44}O_9P \bullet Na$
FW: 506.5
Purity: ≥95%
Supplied as: A crystalline solid
Storage: -20°C
Stability: ≥4 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

1-Palmitoyl-2-hydroxy-*sn*-glycero-3-PG (16:0 Lyso-PG) (sodium salt) is supplied as a crystalline solid. A stock solution may be made by dissolving the 16:0 lyso-PG in the solvent of choice, which should be purged with an inert gas. 16:0 Lyso-PG is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF). The solubility of 16:0 lyso-PG in ethanol is approximately 5 mg/ml and approximately 30 mg/ml in DMSO and DMF.

Further dilutions of the stock solution into aqueous buffers or isotonic saline should be made prior to performing biological experiments. Ensure that the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. Organic solvent-free aqueous solutions of 16:0 lyso-PG can be prepared by directly dissolving the crystalline solid in aqueous buffers. The solubility of 16:0 lyso-PG in PBS (pH 7.2) is approximately 1 mg/ml. We do not recommend storing the aqueous solution for more than one day.

Description

16:0 Lyso-PG is a lysophospholipid containing palmitic acid (16:0) (Item No. 10006627) 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]

Reference

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).

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