

PRODUCT INFORMATION

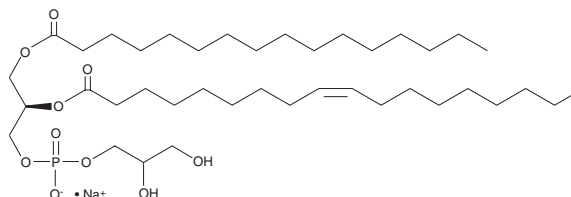


1-Palmitoyl-2-oleoyl-*sn*-glycero-3-PG (sodium salt)

Item No. 15105

CAS Registry No.: 268550-95-4
Formal Name: 1-palmitoyl-2-oleoyl-*sn*-glycero-3-phosphoglycerol, monosodium salt
Synonyms: 1-Palmitoyl-2-oleoyl-*sn*-glycero-3-phosphoglycerol, 1-Palmitoyl-2-oleoyl-*sn*-glycero-3-phospho-(1'-*rac*-glycerol), PG(16:0/18:1(9Z)), POPG

MF: C₄₀H₇₆O₁₀P • Na
FW: 771.0
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-Palmitoyl-2-oleoyl-*sn*-glycero-3-PG (POPG) (sodium salt) is supplied as a crystalline solid. A stock solution may be made by dissolving the POPG (sodium salt) in the solvent of choice. POPG (sodium salt) is soluble in chloroform at a concentration of approximately 2 mg/ml.

POPG (sodium salt) is sparingly soluble in aqueous solutions. To enhance aqueous solubility, dilute the organic solvent solution into aqueous buffers or isotonic saline. If performing biological experiments, ensure the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. We do not recommend storing the aqueous solution for more than one day.

Description

POPG is a phospholipid containing palmitoyl (16:0) and oleoyl (18:1) acyl substituents at the *sn*-1 and *sn*-2 positions, respectively. This mixed chain phosphatidylglycerol has been used to generate lipid membrane bilayers with controlled permeability and may be useful for various surfactant applications.¹⁻²

References

1. Mansour, H.M. and Zografi, G. The relationship between water vapor absorption and desorption by phospholipids and bilayer phase transitions. *J. Pharm. Sci.* **96(2)**, 377-396 (2007).
2. Dudia, A., Koëer, A., Subramaniam, V., *et al.* Biofunctionalized lipid-polymer hybrid nanocontainers with controlled permeability. *Nano Lett.* **8(4)**, 1105-1110 (2008).

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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