

# PRODUCT INFORMATION



## 1,2-Dioleoyl-*sn*-glycero-3-PG (sodium salt)

Item No. 20957

CAS Registry No.: 67254-28-8

Formal Name: 9-octadecenoic acid (9Z)-1,1'-  
[[1R)-1-[[[(2,3-dihydroxypropoxy)  
hydroxyphosphinyl]oxy]methyl]-1,2-  
ethanediyl] ester, monosodium salt

Synonyms: 1,2-Dioleoyl-*sn*-glycero-3-phospho-  
(1'-*rac*-glycerol), 1,2-Dioleoyl-*sn*-  
glycero-3-phosphoglycerol,  
DOPG, 18:1 ( $\Delta^9$ -*cis*) PG

MF:  $C_{42}H_{78}O_{10}P \cdot Na$

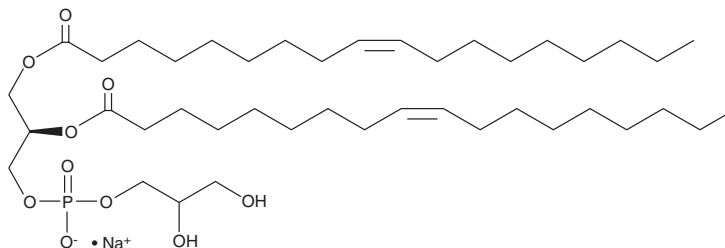
FW: 797.0

Purity:  $\geq 95\%$

Supplied as: A crystalline solid

Storage:  $-80^{\circ}C$

Stability:  $\geq 1$  year



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

### Laboratory Procedures

1,2-Dioleoyl-*sn*-glycero-3-PG (sodium salt) is supplied as a crystalline solid. A stock solution may be made by dissolving the 1,2-dioleoyl-*sn*-glycero-3-PG (sodium salt) in the solvent of choice. 1,2-Dioleoyl-*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

1,2-Dioleoyl-*sn*-glycero-3-PG is a phospholipid containing the long-chain (18:1) fatty acid oleic acid (Item No. 90260) inserted at the *sn*-1 and *sn*-2 positions. It can be used in the generation of micelles, liposomes, and other artificial membranes.<sup>1,2</sup>

### References

1. Takahashi, T., Nomura, F., Yokoyama, Y., *et al.* Multiple membrane interactions and versatile vesicle deformations elicited by melittin. *Toxins (Basel)* **5**, 637-664 (2013).
2. Vequi-Suplicy, C.C., Riske, K.A., Knorr, R.L., *et al.* Vesicles with charged domains. *Biochimica et Biophysica Acta* **1798**, 1338-1347 (2010).

#### 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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