PRODUCT INFORMATION



1,2-Dimyristoyl-sn-glycero-3-PS (sodium salt)

Item No. 20955

CAS Registry No.: 105405-50-3

Formal Name: (2S,8R)-5-oxide, 2-amino-5-hydroxy-11-oxo-

> 8-[(1-oxotetradecyl)oxy]-4,6,10-trioxa-5phosphatetracosanoic acid, monosodium salt

Synonyms: 1,2-Dimyristoyl-sn-glycero-3-phospho-L-serine,

> 1,2-Ditetradecanoyl-sn-glycero-phosphatidylserine, 1,2-Ditetradecanoyl-sn-glycero-phosphoserine, 1,2-DMPS, 14:0 PS, 14:0/14:0-PS, PS(14:0/14:0)

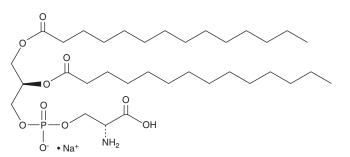
MF: C₃₄H₆₅NO₁₀P • Na

FW: 701.9 **Purity:** ≥95%

Supplied as: A crystalline solid

-20°C Storage: Stability: ≥2 years

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



Laboratory Procedures

1,2-Dimyristoyl-sn-glycero-3-PS (1,2-DMPS) (sodium salt) is supplied as a crystalline solid. A stock solution may be made by dissolving the 1,2-DMPS (sodium salt) in the solvent of choice. 1,2-DMPS (sodium salt) is sparingly soluble in the organic solvent chloroform, which should be purged with an inert gas, at a concentration of approximately 0.5 mg/ml.

Description

1,2-DMPS is an anionic phospholipid containing myristic acid (14:0) inserted at the sn-1 and sn-2 positions. It can be used in the generation of micelles, liposomes, and other types of artificial membranes. 1,2

References

- 1. Mattai, J., Hauser, H., Demel, R.A., et al. Interactions of metal ions with phosphatidylserine bilayer membranes: Effect of hydrocarbon chain unsaturation. Biochemistry 28(5), 2322-2330 (1989).
- 2. Tapia, M.J., Monteserin, M., Burrows, H.D., et al. Effect of the phospholipid chain length and head group on beta-phase formation of poly(9,9-dioctylfluorene) enclosed in liposomes. Photochem. Photobiol. 89(6), 1471-1478 (2013).

WARNING
THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

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.

WARRANTY AND LIMITATION OF REMEDY

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