

PRODUCT INFORMATION



1-Stearoyl-2-hydroxy-*sn*-glycero-3-PE

Item No. 25593

CAS Registry No.: 69747-55-3

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

Synonyms: 18:0 LPE, 18:0 Lyso PE, 1-Octadecanoyl-*sn*-glycero-3-phosphoethanolamine, 1-Stearoyl-2-hydroxy-*sn*-glycero-3-phosphatidylethanolamine, 1-Stearoyl LPE, 1-Stearoyl lyso-PE

MF: C₂₃H₄₈NO₇P

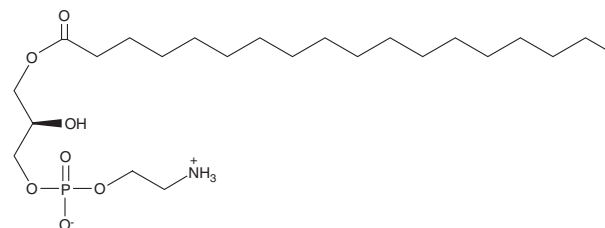
FW: 481.6

Purity: ≥95%

Supplied as: A 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-Stearoyl-2-hydroxy-*sn*-glycero-3-PE (18:0 LPE) is supplied as a solid. A stock solution may be made by dissolving the 18:0 LPE in the solvent of choice, which should be purged with an inert gas. 18:0 LPE is soluble in chloroform, DMSO, and dimethyl formamide.

Description

18:0 LPE is a lysophospholipid.¹ It induces transient increases in intracellular calcium in PC12 rat neuronal cells in a concentration-dependent manner, an effect that can be blocked by the lysophosphatidic acid receptor 1 (LPA₁) receptor antagonist AM095 (Item No. 22141).

Reference

1. Lee, J.M., Park, S.J., and Im, D.S. Lysophosphatidylethanolamine increases intracellular Ca²⁺ through LPA₁ in PC-12 neuronal cells. *Biochem. Biophys. Res. Commun.* **461**(2), 378-382 (2015).

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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