



1-Myristoyl-2-hydroxy-sn-glycero-3-PE

Cat. No.:	OB0626WX-3974
Appearance:	Solid
Purity:	≥98%
Identity:	Confirmed by NMR and HPLC.
Size:	5 mg; 10 mg; 25 mg; 50 mg

This product is for research use only and is not intended for diagnostic use.

Product Overview

Description	1-Myristoyl-2-hydroxy-sn-glycero-3-PE is an endogenously occurring lysophospholipid featuring a single saturated 14-carbon acyl chain. This signaling molecule stimulates concentration-dependent, transient elevations in intracellular calcium within neural cell lineages, and its circulating profiles serve as a sensitive metabolic marker for monitoring alterations in malignant breast pathologies.
Synonyms	Tetradecanoic acid, (2R)-3-[[[(2-aminoethoxy)hydroxyphosphinyl]oxy]-2-hydroxypropyl ester; 14:0 Lyso PE; 1-Myristoyl-2-hydroxy-sn-glycero-3-phosphoethanolamine; 123060-40-2; 2-azaniumylethyl [(2R)-2-hydroxy-3-tetradecanoyloxypropyl] phosphate; LPE(14:0/0:0); 1-myristoyl-sn-glycero-3-phosphoethanolamine; 1-myristoylglycerophosphoethanolamine; 1-14:0-2-lysophosphatidylethanolamine; 1-myristoyl-sn-glycero-3-phosphoethanolamine zwitterion; 1-tetradecanoyl-sn-glycero-3-phosphoethanolamine zwitterion; 2-azaniumylethyl (2R)-2-hydroxy-3-(tetradecanoyloxy)propyl phosphate
CAS No.	123060-40-2
Compound CID	86583448
Formula	C ₁₉ H ₄₀ NO ₇ P
Formula Weight	425.5

Specification

IUPAC Name	2-azaniumylethyl [(2R)-2-hydroxy-3-tetradecanoyloxypropyl] phosphate
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InChI	InChI=1S/C19H40NO7P/c1-2-3-4-5-6-7-8-9-10-11-12-13-19(22)25-16-18(21)17-27-28(23,24)26-15-14-20/h18,21H,2-17,20H2,1H3,(H,23,24)/t18-/m1/s1
InChI Key	RPXHXZNGZBHSMJ-GOSISDBHSA-N
Canonical SMILES	<chem>O[C@@H](COP(OCC[NH3+]))([O-])=O)COC(CCCCCCCCCCCCC)=O</chem>
Stability	1 year
Storage	Storage at -20°C.
Applications	1-Myristoyl-2-hydroxy-sn-glycero-3-PE serves as a lysophosphatidylethanolamine standard for lipid metabolism research and phospholipid analysis. It facilitates lipidomic quantification, chromatographic method development, and characterization of membrane lipid remodeling processes.