Product Data Sheet

Product Name: Lysophosphatidylethanolamines (egg)
Cat. No.: GC18559

Chemical Properties

Cas. No.	97281-40-8		
SMILES	O[C@@H](COP(OCC[NH3+])([O-])=O)COC([R])=O		
Formula		M.Wt	
Solubility	Chloroform: Soluble	Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 ℃ and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20℃ for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		
Structure			

Background

Lysophosphatidylethanolamine (LPE) is a naturally-occurring lysophospholipid that can be generated via deacylation of phosphatidylethanolamine by phospholipase A2 (PLA2). It increases the phosphorylation of ERK1/2 in PC12 cells, an effect that can be blocked by the MEK inhibitors U-0126 and PD 98059 and the EGFR inhibitor AG-1478 . LPE also increases neurite outgrowth and expression of neurofilament M in PC12 cells. LPE inhibits the activity of phospholipase D (PLD) partially purified from cabbage. Lysophosphatidylethanolamines (egg) is a mixture of lysophosphatidylethanolamines isolated from chicken egg with fatty acyl groups of variable lengths at the sn-1 position and a hydroxy group at the sn-2 position.

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