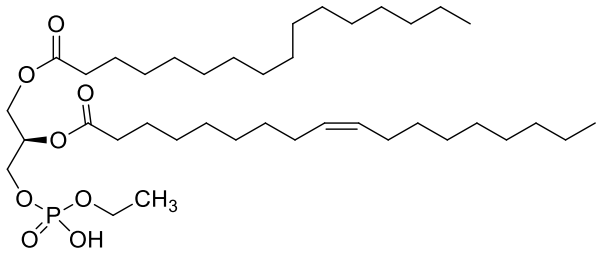
Catalog # 10-1410

Phosphatidylethanol

1-Palmitoyl-2-oleoyl-sn-glycerol-3-phosphoethanol

Lot # S101009



Phospholipase D converts phosphatidylcholine to phosphatidylethanol in the presence of ethanol. This reaction is the basis of a sensitive and selective assay for PLD activity in intact cells for which this product may be used as a chromatographic standard.

1) Kobayashi *et al*. (1987), *Phosphatidylethanol formation via transphosphatidylation by rat brain synaptosomal phospholipase D*; J. Neurochem., **48** 1597

2) Liscovith *et al*. (1989), *Phosphatidylethanol biosynthesis in ethanol-exposed NG108-15 neuroblastoma X glimoa hybrid cells. Evidence for activation of a phospholipase D phosphatidyl transferase activity by protein kinase C*; J. Biol. Chem., **264** 1450

3) Pai *et al*. (1988), *Phospholipase D catalyzes phospholipid metabolism in chemotactic peptide-stimulated HL-60 granulocytes*; J. Biol. Chem., **263** 12472

PHYSICAL DATA

Molecular Weight:	701.99
Molecular Formula:	$C_{39}H_{74}O_8P$
Purity:	98% by TLC
	NMR: (Conforms)
Solubility:	Chloroform (up to 10 mg/ml)
Physical Description:	Viscous oil / wax
Storage and Stability:	Store as supplied at -20°C for up to 2 years from the date of purchase. Protect from exposure to air, compound may be subject to oxidation. Solutions in chloroform may be stored at -20°C for up to 3 months.

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