

Product Data Sheet

Product Name: 1-Palmitoyl-2-13(S)-HODE-sn-glycero-3-PC

Cat. No.: GC92061

Chemical Properties

Cas. No. 161923-56-4

Chemical Name (7R,17Z,19E,21S)-4,21-dihydroxy-N,N,N-trimethyl-9-oxo-7-[[[(1-oxohexadecyl)oxy]methyl]-3,5,8-trioxa-4-phosphahexacos-17,19-dien-1-aminium, inner salt, 4-oxide

SMILES O=C(CCCCCCCCCCCCCCCC)OC[C@@H](OC(CCCCCC/C=C\C=C\[C@H](CCCC)O)=O)COP(OCC[N+](C)(C)C)([O-])=O

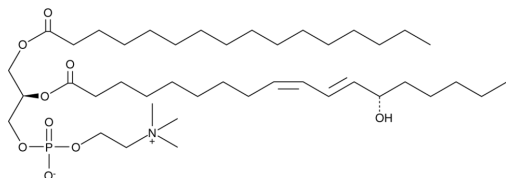
Formula $C_{42}H_{80}NO_9P$ M.Wt 774.1

Solubility Ethanol: Slightly Soluble: 0.1-1 mg/ml Storage $-80^{\circ}C$

General tips For obtaining a higher solubility, please warm the tube at $37^{\circ}C$ and shake it in the ultrasonic bath for a while. Stock solution can be stored below $-20^{\circ}C$ 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

1-Palmitoyl-2-13(S)-HODE-*sn*-glycero-3-PC is an oxidized phospholipid that contains palmitic acid and 13(S)-HODE at the *sn*-1 and *sn*-2 positions, respectively. It has been used to detect the activity of glutathione peroxidase 4 (GPX4), also known as phospholipid hydroperoxide glutathione peroxidase (PhGPx), using 1-palmitoyl-2-13(S)-HpODE-*sn*-glycero-3-PC as the substrate.¹

References:

[1]. Bao, Y., Chambers, S.J., and Williamson, G. Direct separation of hydroperoxy- and hydroxy-

Caution: Product has not been fully validated for medical applications. For research use only.

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phosphatidylcholine derivatives: Application to the assay of phospholipid hydroperoxide glutathione peroxidase Anal. Biochem. 224(1)395-399(1995).

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