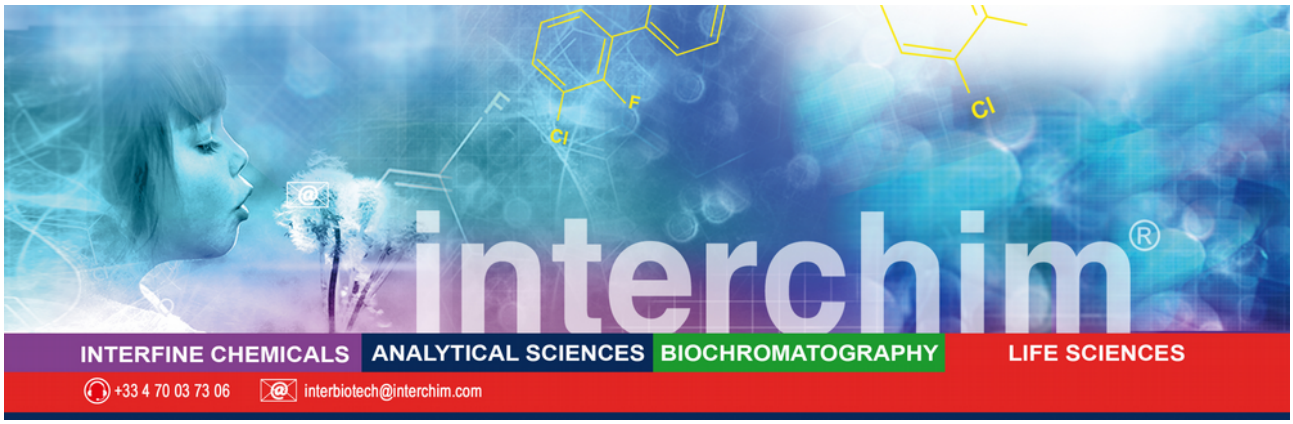
FT-XC782L



L-α-Lysophosphatidylcholine

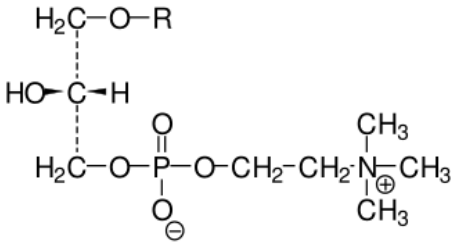
A major component of oxidized low density lipoproteins that has been implicated in various inflammatory reactions

Product Description

Catalog #: XC782L, 25 mg

Name : **L-α-Lysophosphatidylcholine (from egg yolk)**

1-Acyl-sn-glycero-3-phosphocholine; L-α-Lysolecithin
CAS [9008-30-4]



Properties : MW: 505 g/mol

(physical) Solubility : usually tested at 25-50 mg per ml in chloroform:methanol (1:1, v/v) for synthetic LPC and/or chloroform for natural source LPC. Solubilities of egg LPC (g/100 mL) at 25°C have been reported in ethanol (3.9), chloroform (27.8), methanol (14.6), acetone (0.02), diethyl ether (0.002) and petroleum ether (0.02). 3 Short chain fatty acid LPC have been assayed at 25-50 mg per ml in chloroform (L3010) or chloroform:methanol (9:1, v/v) (L3135). Slight warming (40°C) will aid solubility.

Storage : -20°C

For Research Use Only

Introduction

Lysophosphatidylcholine is a major component of oxidized low density lipoproteins, and has been implicated in various inflammatory reactions, including atherosclerosis. It is used to demyelinate spinal neurons and study the processes underlying remyelination. It activates protein kinase C, p38 MAP kinase, p42 MAP Kinase, and the jun kinase (JNK) pathway, and stimulates transcription of c-jun. Lysophosphatidylcholine accumulates during cardiac ischemia and may induce arrhythmias by uncoupling gap junction communication, and increase ischemic damage by enhancing Na^+ loading in cardiac myocytes. It also activates TREK1, TREK2 and TRAAK K+ channels.

Technical and Scientific Information

References

- **Schaap F.** *et al*., ApoAV Reduces Plasma Triglycerides by Inhibiting Very Low Density Lipoprotein-Triglyceride (VLDL-TG) Production and Stimulating Lipoprotein Lipase-mediated VLDL-TG Hydrolysis, *The Journal of Biological Chemistry*, 279:27941-27947 (2004)
- **Xiong Y**. *et al*., Validation of an LC–MS/MS method for the quantification of choline-related compounds and phospholipids in foods and tissues, *Journal of Chromatography B*, 911:170–179 (2012)
- **Zhao Y.** *et al*., Measurement of phospholipids by hydrophilic interaction liquid chromatography coupled to tandem mass spectrometry: The determination of choline containing compounds in foods, *Journal of Chromatography A*, Volume 1218, 32:5470–5479 (2011)

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