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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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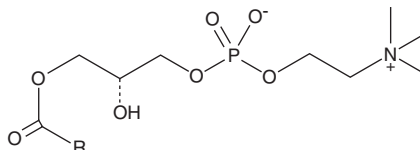
PRODUCT INFORMATION



Lysophosphatidylcholines (egg)

Item No. 24331

CAS Registry No.:	9008-30-4
Synonym:	Lyso-Lecithins (egg)
MF:	$C_{24}H_{50}NO_7P$ (for palmitoyl)
FW:	495.6
Purity:	≥98%
Supplied as:	A solid
Storage:	-20°C
Stability:	≥2 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

Lysophosphatidylcholines (egg) is supplied as a solid. A stock solution may be made by dissolving the lysophosphatidylcholines (egg) in the solvent of choice. Lysophosphatidylcholines (egg) is soluble in a 2:1 solution of chloroform:methanol.

Description

Lysophosphatidylcholines are produced by hydrolysis of the fatty acid of phosphatidylcholine (PC; Item Nos. 24343 | 24370) at either the *sn*-1 or *sn*-2 position by phospholipase A_2 (PLA₂) or by lecithin-cholesterolacyltransferase (LCAT), which transfers the fatty acid to cholesterol.¹ Lysophosphatidylcholine has effects on a variety of cell types, including smooth muscle cells, endothelial cells, T lymphocytes, monocytes, and macrophages among others. It is a major phospholipid component of oxidized low-density lipoprotein (ox-LDL), and it accumulates in animal models of atherosclerosis. Lysophosphatidylcholine also has pro-inflammatory properties through its activation and modulation of various signaling pathways, including the ERK pathway as well as through protein tyrosine kinase and G protein-coupled receptor (GPCR) signal transduction. It is released from apoptotic cells following caspase-3 activation of the calcium-independent PLA₂ and acts as a chemoattractant for monocytes.² Lysophosphatidylcholine (2 μl, 1%) injected into the caudal cerebellar peduncle of rats induces demyelination of axons *in vivo*, which are extensively remyelinated by oligodendrocytes six weeks following injection.³ Lysophosphatidylcholines (egg) is a mixture of lysophosphatidylcholines isolated from chicken egg that has a fatty acid of variable chain length acylated to the *sn*-1 or *sn*-2 position.

References

1. Matsumoto, T., Kobayashi, T., and Kamata, K. Role of lysophosphatidylcholine (LPC) in atherosclerosis. *Curr. Med. Chem.* **14**(30), 3209-3220 (2007).
2. Lauber, K., Bohn, E., Kröber, S.M., *et al.* Apoptotic cells induce migration of phagocytes via caspase-3-mediated release of a lipid attraction signal. *Cell* **113**(6), 717-730 (2003).
3. Woodruff, R.H. and Franklin, R.J. Demyelination and remyelination of the caudal cerebellar peduncle of adult rats following stereotaxic injections of lysolecithin, ethidium bromide, and complement/anti-galactocerebroside: A comparative study. *Glia* **25**(3), 216-228 (1999).

WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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