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Zuschläge

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- Trockeneiszuschlag
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- Expressversand

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PRODUCT INFORMATION



1-Oleoyl-2-hydroxy-*sn*-glycero-3-PC

Item No. 20959

CAS Registry No.: 19420-56-5
Formal Name: 4,7R-dihydroxy-N,N,N-trimethyl-10-oxo-3,5,9-trioxa-4-phosphaheptacos-18Z-en-1-aminium, 4-oxide, inner salt

Synonyms: LPC, Lysooleoylphosphatidylcholine, 18:1 Lyso-PC, 1-Oleoyl-2-hydroxy-*sn*-glycero-3-Phosphocholine

MF: C₂₆H₅₂NO₇P

FW: 521.7

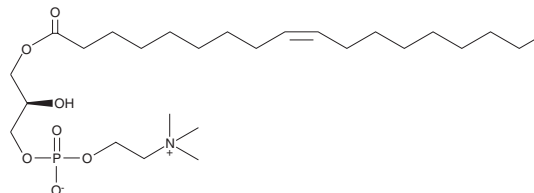
Purity: ≥95%

UV/Vis.: λ_{max}: 221 nm

Supplied as: A solution in chloroform

Storage: -80°C

Stability: ≥1 year



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

Laboratory Procedures

1-Oleoyl-2-hydroxy-*sn*-glycero-3-PC is supplied as a solution in chloroform. For biological experiments, we suggest that organic solvent-free aqueous solutions of 1-oleoyl-2-hydroxy-*sn*-glycero-3-PC be prepared by directly dissolving the neat oil in aqueous buffers. The solubility of 1-oleoyl-2-hydroxy-*sn*-glycero-3-PC in PBS, pH 7.2, is approximately 2 mg/ml. We do not recommend storing the aqueous solution for more than one day.

Description

1-Oleoyl-2-hydroxy-*sn*-glycero-3-PC is an unsaturated 18:1 lysophosphatidylcholine formed in plasma by lecithin:cholesterol acyltransferase (LCAT).¹⁻² Lysophosphatidylcholines play a role in lipid signaling to regulate gene transcription, mitogenesis, monocyte chemotaxis, smooth muscle relaxation, and platelet activation.³⁻⁵

References

1. Soupene, E., Fyrst, H., and Kuypers, F.A. Mammalian acyl-CoA:lysophosphatidylcholine acyltransferase enzymes. *Proc. Natl. Acad. Sci. USA* **105**(1), 88-93 (2008).
2. Florin-Christensen, J., Narvaez-Vasquez, J., Florin-Christensen, M., et al. A method for distinguishing 1-acyl from 2-acyl lysophosphatidylcholines generated in biological systems. *Anal. Biochem.* **276**, 13-17 (1999).
3. Yuan, Y., Schoenwaelder, S.M., Salem, H.H., et al. The bioactive phospholipid, lysophosphatidylcholine, induces cellular effects via G-protein-dependent activation of adenylyl cyclase. *J. Biol. Chem.* **271**, 27090-27098 (1996).
4. Lundbæk, J.A. and Andersen, O.S. Lysophospholipids modulate channel function by altering the mechanical properties of lipid bilayers. *J. Gen. Physiol.* **104**, 645-673 (1994).
5. Kabarowski, J.H.S., Zhu, K., Le, L.Q., et al. Lysophosphatidylcholine as a ligand for the immunoregulatory receptor G2A. *Science* **293**, 702-705 (2001).

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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