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# Produktinformation

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- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

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## Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

## Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand


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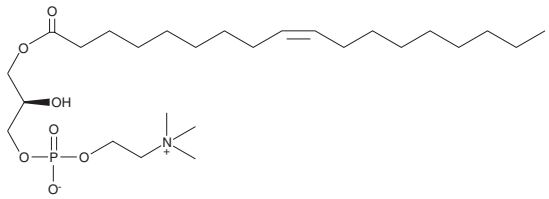
# PRODUCT INFORMATION

## 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:** $C_{26}H_{52}NO_7P$
**FW:** 521.7
**Purity:** ≥95%
**UV/Vis.:** $\lambda_{max}$: 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).
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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).





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