

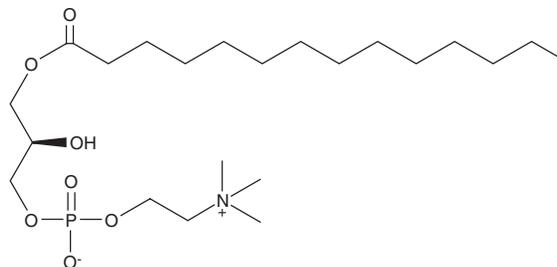
# PRODUCT INFORMATION



## 1-Myristoyl-2-hydroxy-*sn*-glycero-3-PC

Item No. 20958

**CAS Registry No.:** 20559-16-4  
**Formal Name:** 4,7R-dihydroxy-N,N,N-trimethyl-10-oxo-3,5,9-trioxa-4-phosphatricosan-1-aminium, 4-oxide, inner salt  
**Synonyms:** 14:0 Lyso-PC, 1-Myristoyl-*sn*-glycero-3-Phosphatidylcholine  
**MF:** C<sub>22</sub>H<sub>46</sub>NO<sub>7</sub>P  
**FW:** 467.6  
**Purity:** ≥95%  
**Supplied as:** A crystalline solid  
**Storage:** -20°C  
**Stability:** ≥4 years



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

### Laboratory Procedures

1-Myristoyl-2-hydroxy-*sn*-glycero-3-PC is supplied as a crystalline solid. Aqueous solutions of 1-myristoyl-2-hydroxy-*sn*-glycero-3-PC can be prepared by directly dissolving the crystalline solid in aqueous buffers. The solubility of 1-myristoyl-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-Myristoyl-2-hydroxy-*sn*-glycero-3-PC is a saturated 14:0 lysophosphatidylcholine that consists of one chain of myristic acid (Item No. 13351) at the *sn*-1 position. It is formed in plasma by lecithin:cholesterol acyltransferase (LCAT) and has a role in lipid signaling by acting on lysophospholipid receptors.<sup>1</sup>

### Reference

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).

**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.

**WARRANTY AND LIMITATION OF REMEDY**  
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