

PRODUCT INFORMATION



1-Linoleoyl-2-Hydroxy-*sn*-glycero-3-PC

Item No. 17153

CAS Registry No.: 22252-07-9
Formal Name: (7R,18Z,21Z)-4,7-dihydroxy-N,N,N-trimethyl-10-oxo-3,5,9-trioxa-4-phosphaheptacosia-18,21-dien-1-aminium, 4-oxide, inner salt

Synonyms: LGPC,
1-Linoleoyl-2-Hydroxy-*sn*-glycero-3-Phosphocholine,
1-Linoleoyl-2-Hydroxy-*sn*-glycero-3-Phosphatidylcholine,
PC(18:2/0:0), 18:2/0:0-PC

MF: C₂₆H₅₀NO₇P

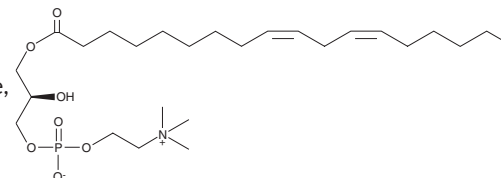
FW: 519.7

Purity: ≥95%

Supplied as: A crystalline 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

1-Linoleoyl-2-hydroxy-*sn*-glycero-3-PC is supplied as a crystalline solid. Aqueous solutions of 1-linoleoyl-2-hydroxy-*sn*-glycero-3-PC can be prepared by directly dissolving the crystalline solid in aqueous buffers. The solubility of 1-linoleoyl-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-Linoleoyl-2-hydroxy-*sn*-glycero-3-PC (LGPC) is a lysophospholipid containing linoleic acid (Item Nos. 90150 | 90150.1 | 21909) at the *sn*-1 position that has been found in mouse heart, lung, liver, spleen, kidney, plasma, and serum.¹ Serum levels of LGPC decrease with increasing insulin resistance and dysglycemia in humans.²

References

- Okudaira, M., Inoue, A., Shuto, A., *et al.* Separation and quantification of 2-acyl-1-lysophospholipids and 1-acyl-2-lysophospholipids in biological samples by LC-MS/MS. *J. Lipid Res.* **55**(10), 2178-2192 (2014).
- Gall, W.E., Beebe, K., Lawton, K.A., *et al.* α-Hydroxybutyrate is an early biomarker of insulin resistance and glucose intolerance in a nondiabetic population. *PLoS One* **5**(5), e10883 (2010).

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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