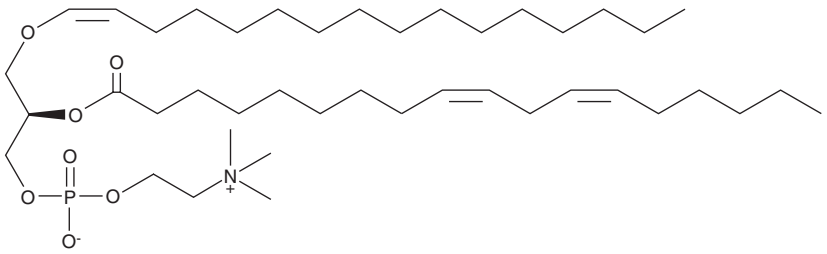
PRODUCT INFORMATION

1-(1(Z)-Hexadecenyl)-2-linoleoyl-*sn*-glycero-3-phosphocholine

Item No. 9004681

CAS Registry No.: 204983-73-3
Formal Name: (7R,17Z,20Z)-7-[[(1Z)-1-hexadecen-1-yloxy]methyl]-4-hydroxy-N,N,N-trimethyl-9-oxo-3,5,8-trioxa-4-phosphahexacosa-17,20-dien-1-aminium, inner salt, 4-oxide
Synonyms: C16(plasm)-18:2-PC, 1-1(Z)-Hexadecenyl-2-Linoleoyl-*sn*-glycero-3-PC, 1-1(Z)-Hexadecenyl-2-(9Z,12Z)-Octadecadienoyl-*sn*-glycero-3-Phosphocholine, 16:0p/18:2-PC, PC(P-16:0/18:2), PlgPC 16:0/18:2,
MF: $C_{42}H_{80}NO_7P$
FW: 742.1
Purity: ≥95%
Side Chain: 34:2
Supplied as: A 5 mg/ml solution in ethanol
Storage: -20°C
Stability: ≥2 years



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

Description

1-(1(Z)-Hexadecenyl)-2-linoleoyl-*sn*-glycero-3-phosphocholine is a plasmalogen that contains 1(Z)-hexadecenoic acid and linoleic acid (Item Nos. 90150 | 90150.1 | 21909) at the *sn*-1 and *sn*-2 positions, respectively. It inhibits lead-induced decreases in viability and lead-induced increases in reactive oxygen species (ROS) and oxidized phospholipids in HepG2 hepatocytes.[1] Serum levels of 1-(1(Z)-hexadecenyl)-2-linoleoyl-*sn*-glycero-3-phosphocholine are decreased in dogs with myxomatous mitral valve disease when fed a diet including medium chain triglycerides, fish oil, carnitine precursors, magnesium, and antioxidants.[2]

References

1. Wu, Y., Chen, Z., Darwish, W.S., *et al*. Choline and ethanolamine plasmalogens prevent lead-induced cytotoxicity and lipid oxidation in HepG2 cells. *J. Agric. Food Chem.* **67(27)**, 7716-7725 (2019).
2. Li, Q., Laflamme, D.P., and Bauer, J.E. Serum untargeted metabolomic changes in response to diet intervention in dogs with preclinical myxomatous mitral valve disease. *PLoS One* **15(6)**, e0234404 (2020).

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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