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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

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- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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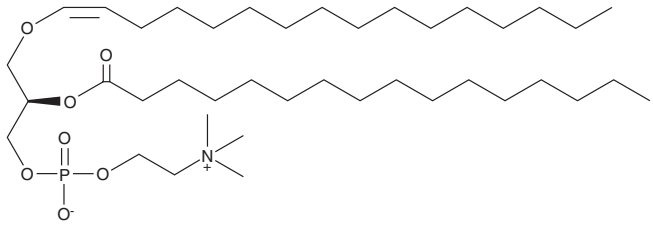
PRODUCT INFORMATION

1-1(Z)-Hexadecenyl-2-Palmitoyl-*sn*-glycero-3-PC

Item No. 28348

CAS Registry No.: 126901-45-9
Formal Name: 2-[[[(2R)-3-[(1Z)-1-hexadecen-1-yloxy]-2-[(1-oxohexadecyl)oxy]propoxy]hydroxyphosphinyl]oxy]-N,N,N-trimethyl-ethanaminium, inner salt
Synonyms: C16(plasm)-16:0-PC, 16:0p/16:0-PC, PC(P-16:0/16:0), 1-1(Z)-Hexadecenyl-2-Hexadecanoyl-*sn*-glycero-3-Phosphatidylcholine, 1-1(Z)-Hexadecenyl-2-Hexadecanoyl-*sn*-glycero-3-Phosphocholine
MF: $C_{40}H_{80}NO_7P$
FW: 718.1
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

1-1(Z)-Hexadecenyl-2-palmitoyl-*sn*-glycero-3-PC is supplied as a crystalline solid. A stock solution may be made by dissolving the 1-1(Z)-hexadecenyl-2-palmitoyl-*sn*-glycero-3-PC in the solvent of choice, which should be purged with an inert gas. 1-1(Z)-Hexadecenyl-2-palmitoyl-*sn*-glycero-3-PC is soluble in the organic solvent ethanol at a concentration of approximately 30 mg/ml.

Description

1-1(Z)-Hexadecenyl-2-palmitoyl-*sn*-glycero-3-PC is a plasmalogen that has been found in various rat tissues, including the liver, heart, kidney, gluteus muscle, soleus muscle, and visceral and subcutaneous adipose tissue.[1] It has been used in the synthesis of lipid bilayers to quantify the effects of amphiphilic compounds, such as lysophosphatidylcholine (1-palmitoyl-2-hydroxy-*sn*-glycero-3-PC; Item No. 10172) and lysoplasmenylcholine, on membrane dynamics.[2]

References

1. Pradas, I., Huynh, K., Cabré, R., *et al.* Lipidomics reveals a tissue-specific fingerprint. *Front. Physiol.* **9**, 1165 (2018).
2. Han, X. and Gross, R.W. Alterations in membrane dynamics elicited by amphiphilic compounds are augmented in plasmenylcholine bilayers. *Biochim. Biophys. Acta.* **1069(1)**, 37-45 (1991).

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