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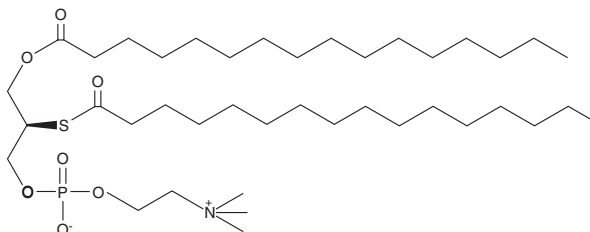
PRODUCT INFORMATION



Palmitoyl thio-PC

Item No. 10010521

CAS Registry No.: 113881-60-0
Formal Name: 1-O-hexadecanoyl-2-thio-R-(hexadecanoyl)-sn-glycerol-3-phosphocholine
MF: C₄₀H₈₀NO₇PS
FW: 750.1
Purity: ≥98%
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

Palmitoyl thio-PC is supplied as a crystalline solid. A stock solution may be made by dissolving the palmitoyl thio-PC in the solvent of choice, which should be purged with an inert gas. Palmitoyl thio-PC is soluble in the organic solvent ethanol at a concentration of approximately 50 mg/ml.

Palmitoyl thio-PC is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, palmitoyl thio-PC should first be dissolved in ethanol and then diluted with the aqueous buffer of choice. Palmitoyl thio-PC has a solubility of approximately 0.5 mg/ml in a 1:1 solution of ethanol:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

Thioester analogs of glycerophospholipids, in combination with Ellman's reagent, are convenient colorimetric substrates for the measurement of phospholipase (PL) activity.^{1,2} Palmitoyl thio-PC is a chromogenic PLA₂ substrate that contains a palmitoyl thioester at the sn-2 position of the glycerol backbone. Hydrolysis of the thioester by PLA₂ yields a free thiol that reacts readily with DTNB (Ellman's reagent) giving a bright yellow product with an absorbance maximum at 412 nm. Palmitoyl thio-PC has been used to measure bee venom sPLA₂ activity in a phospholipid:Triton X-100 mixed micelle system.³

References

1. Hendrickson, H.S., Hendrickson, E.K., and Dybvig, R.H. Chiral synthesis of a dithiolester analog of phosphatidylcholine as a substrate for the assay of phospholipase A₂. *J. Lipid Res.* **24(11)**, 1532-1537 (1983).
2. Reynolds, L.J., Hughes, L.L., and Dennis, E.A. Analysis of human synovial fluid phospholipase A₂ on short chain phosphatidylcholine-mixed micelles: Development of a spectrophotometric assay suitable for a microtiterplate reader. *Anal. Biochem.* **204(1)**, 190-197 (1992).
3. Balet, C., Clingman, K.A., and Hajdu, J. 1-palmitoyl-2-thiopalmityl phosphatidylcholine, a highly specific chromogenic substrate of phospholipase A₂. *Biochem. Biophys. Res. Commun.* **150(2)**, 561-567 (1988).

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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