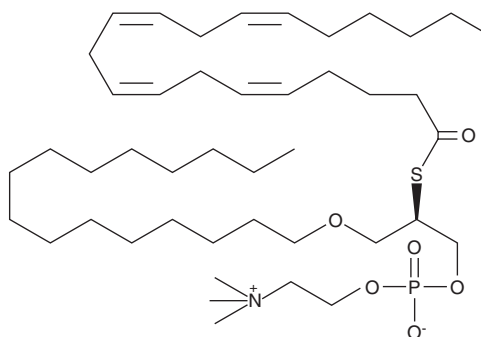


# PRODUCT INFORMATION

## Arachidonoyl thio-PC

Item No. 62240

**CAS Registry No.:** 146797-82-2  
**Formal Name:** 1-O-hexadecyl-2-deoxy-2-thio-R-(5Z,8Z,11Z,14Z-eicosatetraenoyl)-sn-glyceryl-3-phosphorylcholine  
**Synonym:** 2-deoxy-2-thio Arachidonoyl PC  
**MF:** C<sub>44</sub>H<sub>82</sub>NO<sub>6</sub>PS  
**FW:** 784.2  
**Purity:** ≥98%  
**Supplied as:** A solution in ethanol containing 0.1% BHT  
**Storage:** -20°C  
**Stability:** ≥1 year



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

### Laboratory Procedures

Arachidonoyl thio-PC is supplied as a solution in ethanol. To change the solvent, simply evaporate the ethanol under a gentle stream of nitrogen and immediately add the solvent of choice. Solvents such as DMSO and dimethyl formamide purged with an inert gas can be used. The solubility of arachidonoyl thio-PC in these solvents is approximately 25 mg/ml. Arachidonoyl thio-PC is soluble in water as a concentration of approximately 0.5 mg/ml.

### Description

Arachidonoyl thio-PC is a substrate for many phospholipase A<sub>2</sub>s (PLA<sub>2</sub>s) including sPLA<sub>2</sub>, cPLA<sub>2</sub>, and iPLA<sub>2</sub>. Cleavage of the sn-2 fatty acid by PLA<sub>2</sub> results in generation of a free thiol which reacts with chromogenic reagents such as DTNB (Ellman's reagent) and DTP to allow quantitation of PLA<sub>2</sub> activity.<sup>1</sup> Isozyme-specific cPLA<sub>2</sub> activity can be measured by excluding or inhibiting sPLA<sub>2</sub> and iPLA<sub>2</sub> activities in the assay.

### Reference

1. Yu, L. and Dennis, E.A. Thio-based phospholipase assay. *Methods Enzymol.* **197**, 65-75 (1991).

#### 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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