

Product Information



Arachidonoyl thio-PC (Substrate)

Item No. 765034

Arachidonoyl thio-PC is a substrate for phospholipase A₂ (PLA₂) which could also be hydrolyzed by calcium-dependent cytosolic PLA₂ by virtue of the presence of arachidonic acid at the *sn*-2 position of the glycerophospholipid.¹

Contents

The vial contains an ethanolic solution of arachidonoyl thio-PC (14 mg) containing 0.1% 2,6-di-*tert*-butyl-4-methylphenol (BHT). Arachidonoyl thio-PC, when stored as supplied, is stable for one year at -20°C.

Laboratory Procedures

Evaporate the ethanolic solution to dryness under a gentle stream of nitrogen. Reconstitute the contents of the vial by vortexing with 6 ml of cPLA₂ Assay Buffer (Item No. 765030). Cool the vial on ice, vortex well until the substrate solution becomes clear, and then add 6 ml of HPLC-grade (or equivalent) water to achieve a final concentration of 1.5 mM. The reconstituted substrate is stable for one week at -20°C.

CAUTIONS

For laboratory research use only. This reagent is not for human or veterinary use. This product has been tested and formulated to work exclusively with the cPLA₂ Assay Kit from Cayman (Item No. 765021). This product may not perform as described if used with other assay reagents or protocols.

Reference

1. Reynolds, L.J., Hughes, L.L., Yu, L., *et al.* 1-Hexadecyl-2-arachidonoylthio-2-deoxy-*sn*-glycero-3-phosphorylcholine as a substrate for the microtiterplate assay of human cytosolic phospholipase A₂. *Anal. Biochem.* **217**, 25-32 (1994).

Related Products

For a list of related products please visit: www.caymanchem.com/catalog/765034

WARNING: THIS PRODUCT IS FOR LABORATORY RESEARCH ONLY; NOT FOR ADMINISTRATION TO HUMANS. NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

MATERIAL SAFETY DATA

This material should be considered hazardous until information to the contrary becomes available. Do not ingest, swallow, or inhale. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. This information contains some, but not all, of the information required for the safe and proper use of this material. Before use, the user must review the complete Material Safety Data Sheet, which has been sent via email to your institution.

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Cayman Chemical Company makes **no warranty or guarantee** of any kind, whether written or oral, expressed or implied, including without limitation, any warranty of fitness for a particular purpose, suitability and merchantability, which extends beyond the description of the chemicals hereof. Cayman **warrants only** to the original customer that the material will meet our specifications at the time of delivery.

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