Creative Enzymes®

Palmitoyl Thio-PC

Cat. No. CSUB-0915

Lot. No. (See product label)

Introduction

Description	Palmitoyl Thio-PC is a thioester analogs of glycerophospholipids, in combination with Ellman's reagent, are convenient colorimetric substrates for the measurement of phospholipase (PL) activity. 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.
Applications	A chromogenic PLA2 substrate
Synonyms	(R)- 4-Hydroxy-N,N,N-trimethyl-10-oxo-7-[(1-oxohexadecyl)thio]-3,5,9-trioxa-4-phosphapentacosan-1-aminium Inner Salt 4-Oxide

Product Information

Form	Solid
CAS No.	113881-60-0
Molecular Formula	C40H80NO7PS
Molecular Weight	750.1
Solubility	Soluble in ethanol (~50 mg/ml), and 1: 1solution of ethanol:PBS(pH7.2) (~0.5 mg/ml).

Storage and Shipping Information

Storage	Store at -20° C