

Active Native Streptomyces sp. Phospholipase D, Type VII

Cat. No. PLD-19S **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Native Phospholipase D, Type VII, was purified from Streptomyces sp. CAS#9001-87-0
Species	Streptomyces sp.
Source	Streptomyces
Description	Hydrolyzes the phosphate bonds of phospholipids and sphingomyelin to give the corresponding phosphatidic acid. Phospholipase D is glycerophospholipid-specific. It is markedly less active on sphingomyelins and lysophospholipids. Phospholipase D hydrolyzes the phosphate bonds of phospholipids and sphingomyelin to give the corresponding phosphatidic acid.
Form	lyophilized powder. Bottomless glass bottle. Contents are inside inserted fused cone.
Bio-activity	≥150 units/mg solid
Unit Definition	One unit will liberate 1.0 μmol of choline from L-α-phosphatidylcholine (egg yolk) per hr at pH 5.6 at 30 °C.
Applications	Phospholipase D (PLD) has been used to hydrolyze the phosphate bonds of phospholipids and sphingomyelin to yield the corresponding phosphatidic acid. It has also been used to study metabolic labeling and direct imaging of choline phospholipids in vivo by measuring propargyl-Cho incorporation. Furthermore, PLD has been used in purification and kinetic studies. The enzyme has been used in the

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translocation of sphingosine kinase 1 (SK1) to membrane fractions under in vitro conditions. It has also been used to produce phosphatidic acid (PA) from phosphatidylcholine (PC) in HL60 permeabilized cells.

Notes

Protein by biuret

Storage

Store at -20 °C

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