

Active Native cabbage Phospholipase D, Type IV

Cat. No. PLD-16C **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Native Phospholipase D, Type IV, was purified from white cabbage. Cas# 9001-87-0
Species	Cabbage
Source	Cabbage
Description	Phospholipase D (EC 3.1.4.4, lipophosphodiesterase II, lecithinase D, choline phosphatase) (PLD) is an enzyme of the phospholipase superfamily. Phospholipases are widely occurring, and can be found in a wide range of organisms, including bacteria, yeast, plants, animals, and viruses. The amino acid sequence of cabbage PLD has 83% and 80% identity with Arabidopsis PLD α and castor bean PLD. Hydrolyzes the phosphate bonds of phospholipids and sphingomyelin to give the corresponding phosphatidic acid.
Form	lyophilized powder
Bio-activity	≥ 100 units/mg solid
Purity	Protein, ~25%
Unit Definition	One unit will liberate 1.0 μ mol of choline from L- α -phosphatidylcholine (egg yolk) per hr at pH 5.6 at 30 °C.
Applications	Phospholipase D (PLD) is used to hydrolyze the phosphate bonds of phospholipids and sphingomyelin to give the corresponding phosphatidic acid. It has also been used

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to study metabolic labeling and direct imaging of choline phospholipids in vivo by measuring propargyl-Cho incorporation. Furthermore, PLD is used in purification and kinetic studies. The enzyme has been used for the preparation of Bodipy-phosphatidylcholine during the preparation of fluorescently labelled lipids.

Storage

Store at -20 °C

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