

Active Native *Arachis hypogaea* (peanut) Phospholipase D, Type II

Cat. No. PLD-18A **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Native Phospholipase D, Type II, was purified from <i>Arachis hypogaea</i> (peanut). CAS#9001-87-0
Species	<i>Arachis hypogaea</i>
Source	<i>Arachis hypogaea</i>
Description	Phospholipase D is a phospholipid hydrolyzing enzyme and an important component of receptor-mediated signal transduction responses and regulated secretion. Hydrolyzes the phosphate bonds of phospholipids and sphingomyelin to give the corresponding phosphatidic acid. Phospholipase D is involved in conferring drought susceptibility in peanuts, which increases the risk of aflatoxin contamination.
Form	lyophilized powder. Partially purified, lyophilized powder containing buffer salts.
Bio-activity	≥60 units/mg protein
Purity	Protein, ~30%
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	Research has shown ADP-ribosylation factor regulation of phospholipase D is important in the release of nascent secretory vesicles from the trans-Golgi network. It

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has also been used in a study to investigate stimulation of Na⁺-Ca²⁺ exchange activity in canine cardiac sarcolemmal vesicals.

Notes

Protein determined using biuret, unless otherwise indicated.

Storage

Store at -20 °C

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