Creative Enzymes®

Native Arachis hypogaea (peanut) Phospholipase D

Cat. No. NATE-0594

Lot. No. (See product label)

Introduction

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.
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 has also been used in a study to investigate stimulation of Na+-Ca2+ exchange activity in canine cardiac sarcolemmal vesicals.
Synonyms	Phospholipase D; EC 3.1.4.4; lipophosphodiesterase II; lecithinase D; choline phosphatase; PLD; 9001-87-0

Product Information

Source	Arachis hypogaea (peanut)
Form	Partially purified, lyophilized powder containing buffer salts
EC Number	EC 3.1.4.4
CAS No.	9001-87-0
Activity	> 60 units/mg protein
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.

Storage and Shipping Information

Storage	−20°C