Creative Enzymes®

Native Streptomyces chromofuscus Phospholipase D

Cat. No. NATE-0596

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.
Synonyms	Phospholipase D; EC 3.1.4.4; lipophosphodiesterase II; lecithinase D; choline phosphatase; PLD; 9001-87-0

Product Information

Source	Streptomyces chromofuscus
Form	Type I, buffered aqueous glycerol solution; Solution in 100 mM Tris/HCl, pH 8.0, 10% glycerol (v/v), and 0.1% Triton X-100 (w/v); Type II, lyophilized powder.
EC Number	EC 3.1.4.4
CAS No.	9001-87-0
Molecular Weight	mol wt ~60 kDa
Activity	Type I, > 50,000 units/mL; Type II, > 150 units/mg solid.
Unit Definition	One unit will release 1 μmol of choline from L-α-phosphatidylcholine per hour at pH 8.0 and 37°C.

Storage and Shipping Information

Storage	−20°C