

## 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  $\mu$ mol of choline from L- $\alpha$ -phosphatidylcholine per hour at pH 8.0 and 37°C.

### Storage and Shipping Information

#### Storage

-20°C