Creative Enzymes®

Native Bacillus cereus Phospholipase C

Cat. No. NATE-0592

Lot. No. (See product label)

Introduction

Description	Phospholipase C is induced by thrombin and platelet-activating factor, forming 1,2-diacylglycerol and phosphatidic acid. PLC hydrolyzes the phosphate bond on phosphatidylcholine and other glycerophospholipids yielding diacylglycerol; this enzyme will also hydrolyze the phosphate bonds of sphingomyelin, cardiolipin, choline plasmalogen and ceramide phospholipids.
Applications	Phospholipase C (PLC) is used to study adren oceptor-mediated transmembrane signaling. It is used to degrade inositol-containing phospholipids. Phospholipase C from Bacillus has been used to study how flhF affects the export of PLC and other secretory virulence factors. The enzyme from Creative Enzymes has been used in the digestion of phosphatidylserine fraction of Schistosoma mansoni adult worms.
Synonyms	Phospholipase C; PLC; 9001-86-9; lipophosphodiesterase I; lecithinase C; Clostridium welchii α-toxin; Clostridium oedematiens β-and γ-toxins; lipophosphodiesterase C; phosphatidase C; heat-labile hemolysin; α-toxin; EC 3.1.4.3

Product Information

Source	Bacillus cereus
Form	Lyophilized powder containing approx. 10% protein. Remainder; trehalose, zinc sulfate, and potassium phosphate
EC Number	EC 3.1.4.3
CAS No.	9001-86-9
Activity	> 200 units/mg protein
Buffer	H2O: soluble 1.0 mg/mL, faintly hazy to hazy
Unit Definition	One unit will liberate 1.0 µmole of water soluble organic phosphorus from L-α-phosphatidylcholine per min at pH 7.3 at 37°C.

Storage and Shipping Information

Storage	−20°C