Creative Enzymes®

Native Clostridium perfringens (C. welchii) Phospholipase C

Cat. No. NATE-0593

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.
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	Clostridium perfringens (C. welchii)
Form	Type I, Lyophilized powder in buffered salts; Type II, lyophilized powder; Type III, buffered aqueous glycerol solution; Solution in 60% (v/v) glycerol containing 10 mM Tris-HCl, pH 8.0 and 10 mM EDTA; Type IV, lyophilized powder, Contains phosphate buffer salts, EDTA and stabilizer.
EC Number	EC 3.1.4.3
CAS No.	9001-86-9
Activity	Type I, > 150 units/mg protein; Type II, 10-50 units/mg protein; Type III, Type IV, > 1,000 units/mg protein (Lowry).
Unit Definition	One unit will liberate 1.0 μmole of water soluble organic phosphorus from egg yolk L-α-phosphatidylcholine per min at pH 7.3 at 37°C.

Storage and Shipping Information

Storage	−20°C