Creative Enzymes®

Native Honey bee venom (Apis mellifera) Phospholipase A2

Cat. No. NATE-0585

Lot. No. (See product label)

Introduction

Description	Phospholipase A2 (PLA2) hydrolyzes the β-ester bond of zwitterionic glycerophospholipids. Preferred substrates are phosphatidylcholine, phosphatidylethanolamine, and their plasmalogen analogues. Phosphatidylinositol and phosphatidylserine are also hydrolyzed. It aggressively attacks phospholipids in membranes of intact cells. PLA2 specifically recognizes the sn-2 acyl bond of phospholipids and catalytically hydrolyzes the bond releasing arachidonic acid and lysophospholipids.
Synonyms	Phospholipases A2; EC 3.1.1.4; 9001-84-7; lecithinase A; phosphatidase; phosphatidolipase; phospholipase A; PLA2; Phosphatidylcholine 2-acylhydrolase; PLA2s

Product Information

Source	Honey bee venom (Apis mellifera)
Form	salt-free, lyophilized powder
EC Number	EC 3.1.1.4
CAS No.	9001-84-7
Activity	600-2400 units/mg protein
Unit Definition	One unit will hydrolyze 1.0 μmole of soybean L-α-phosphatidylcholine to L-α-lysophosphatidylcholine and a fatty acid per min at pH 8.9 at 25°C.

Storage and Shipping Information

Storage	−20°C