Creative Enzymes®

Native Bovine Phospholipase A2

Cat. No. NATE-0583

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

Species	Bovine
Source	Bovine pancreas
Form	lyophilized powder; Contains Tris buffer salts.
EC Number	EC 3.1.1.4
CAS No.	9001-84-7
Activity	> 20 units/mg protein
Pathway	Acyl chain remodelling of PC, organism-specific biosystem; Arachidonic acid metabolism, organism-specific biosystem; Ether lipid metabolism, conserved biosystem
Function	calcium ion binding; phospholipase A2 activity
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 8.0 and 37°C.

Storage and Shipping Information

Storage	−20°C