

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 μ mole 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