

Native Porcine Phospholipase A2

Cat. No. NATE-0587

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

Porcine

Source

Porcine pancreas

Form

Type I, ammonium sulfate suspension; Suspension in 3.2 M (NH₄)₂SO₄ solution, pH 5.5; Type II, suspension, off-white.

EC Number

EC 3.1.1.4

CAS No.

9001-84-7

Activity

Type I, > 600 units/mg protein.

Pathway

Arachidonic acid metabolism, organism-specific biosystem; Arachidonic acid metabolism, conserved biosystem; Ether lipid metabolism, organism-specific biosystem; Ether lipid metabolism, conserved biosystem; Fat digestion and absorption, organism-specific biosystem; Fat digestion and absorption, conserved biosystem; Fc epsilon RI signaling pathway, organism-specific biosystem

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 at 37°C.

Storage and Shipping Information

Storage

-20°C