Creative Enzymes®

Native Streptomyces violaceoruber Phospholipase A2

Cat. No. NATE-0588

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.
Applications	Phospholipase A 2 is an enzyme used to hydrolyze phospholipids. It is used to study the release of arachidonic acid from various cell types such as neutrophils, gastric mucosal cells and kidney cells.
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	Streptomyces violaceoruber
Form	Lyophilized powder containing mannitol and Tris buffer.
EC Number	EC 3.1.1.4
CAS No.	9001-84-7
Activity	> 10 units/mg solid
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 at 37°C.

Storage and Shipping Information

Storage	−20°C