

## Native *Streptomyces violaceoruber* Phospholipase A2

Cat. No. NATE-0588

Lot. No. (See product label)

### Introduction

**Description** Phospholipase A2 (PLA2) hydrolyzes the  $\beta$ -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  $\mu$ mole of soybean L- $\alpha$ -phosphatidylcholine to L- $\alpha$ -lysophosphatidylcholine and a fatty acid per min at pH 8.0 at 37°C.

### Storage and Shipping Information

**Storage** -20°C