

## Native Honey bee venom (*Apis mellifera*) Phospholipase A2

Cat. No. NATE-0585

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.

**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** Honey bee venom (*Apis mellifera*)

**Form** salt-free, lyophilized powder

**EC Number** EC 3.1.1.4

**CAS No.** 9001-84-7

**Activity** 600-2400 units/mg protein

**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 8.9 at 25°C.

### Storage and Shipping Information

**Storage** -20°C