

Active Native *Apis mellifera* Phospholipase A2

Cat. No. Pla2-85A **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Native <i>Apis mellifera</i> Phospholipase A2 was purified from honey bee venom.
Species	Honey bee
Source	Honey Bee Venom
Description	Phospholipases A2 (PLA2s) EC 3.1.1.4 are enzymes that release fatty acids from the second carbon group of glycerol. This particular phospholipase specifically recognizes the sn-2 acyl bond of phospholipids and catalytically hydrolyzes the bond releasing arachidonic acid and lysophospholipids. Upon downstream modification by cyclooxygenases, arachidonic acid is modified into active compounds called eicosanoids. Eicosanoids include prostaglandins and leukotrienes, which are categorized as anti-inflammatory and inflammatory mediators.
Form	salt-free, lyophilized powder
Bio-activity	600-2400 units/mg protein
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 8.9 at 25 °C.
Storage	Store at -20 °C

GENE INFORMATION

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Gene Name	Pla2 phospholipase A2 [Apis mellifera]
Official Symbol	Pla2
Synonyms	bvPLA2; GB13351; phospholipase A2; allergen Api m 1; allergen Api m 1phosphatidyl; choline 2-acylhydrolase
Gene ID	406141
mRNA Refseq	NM_001011614
Protein Refseq	NP_001011614
UniProt ID	P00630
Chromosome Location	chromosome: LG13

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