

Recombinant Bee Phospholipase A2

Cat. No. Pla2-343B **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant protein produced in <i>E. Coli</i> contains phospholipase P00630 bee venom protein epitopes, 26-162 amino acids. Purified by proprietary chromatographic technique.
Species	Honey bee
Source	E.coli
Protein Length	26-162 a.a.
Description	Bee venom phospholipase A2 (PLA) is the main allergen in the bee sting allergy. Bee venom phospholipase A2 (BV-PLA2) is a hydrolytic enzyme which specifically cleaves the sn-2 acyl bond of phospholipids at the lipid/water interface. BV-PLA2 is a 14–16-kDa glycoprotein, consisting of 134 amino acids and displaying a single carbohydrate side chain at the residue Asn13. It is also held to be responsible for some systemic anaphylactic reactions in bee venom sensitized individuals. BV-PLA2 presents 3 peptide and a glycopeptide T cell epitopes, which are recognized by both allergic and non-allergic bee venom sensitized subjects. PLA is able to elicit both IgE mediated allergy and normal immunity to bee sting which usually is associated with high affinity IgG4 anti-PLA antibodies.
Form	10mM Tris-HCl, pH 6.5, 0.1M Sodium Phosphate and 8M urea.
Purity	Protein is >95% pure as determined by 10% PAGE (coomassie staining) and RP-HPLC.

 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

Applications	Use as an antigen in ELISA and Western Blots.
Stability	Five years frozen. One month in solution at room temperature.
Storage	Protein is shipped at ambient temperature. Upon arrival, Store at -20°C.

GENE INFORMATION

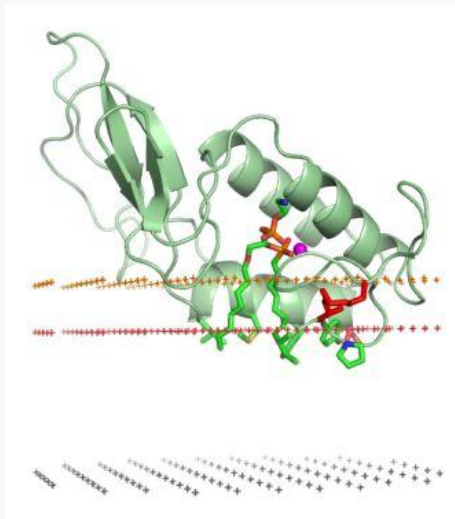
Gene Name	Pla2 phospholipase A2 [<i>Apis mellifera</i>]
Synonyms	Pla2; phospholipase A2; GB13351; allergen Api m 1; phosphatidylcholine 2-acylhydrolase; EC 3.1.1.4
Gene ID	406141
mRNA Refseq	NM_001011614
Protein Refseq	NP_001011614
UniProt ID	P00630
Chromosome Location	LG13

 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

**Bee venom
phospholipase A2
sPLA2. Middle plane
of the lipid bilayer -
black dots. Boundary
of the hydrocarbon
core region - red
dots (extracellular
side). Layer of lipid
phosphates - yellow
dots.**



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