

Recombinant Bee Venom Phospholipase A2

ORDERING INFORMATION

Catalog Number	Size
13824P-100	100ug
13824P-500	500ug
13824P-1000	1000ug

Formulation: Sterile-filtered solution in 10mM Tris-HCl, pH 6.5, 0.1M sodium phosphate, and 8M urea. Purified by proprietary chromatographic techniques.

BACKGROUND

Bee venom phospholipase A2 (BV-PLA2) is the primary allergen in bee venom. It is a hydrolytic enzyme which cleaves the sn-2-acyl bond of phospholipids at the lipid/water interface. BV-PLA2 is a 14-16kDa glycoprotein consisting of 134 amino acids with a single carbohydrate side chain at residue Asn13. BV-PLA2 displays 3 peptide T-cell epitopes and 1 glycopeptide T-cell epitope which are recognized by allergic and non-allergic bee venom-sensitized individuals. BV-PLA2 elicits IgE-mediated allergic responses in allergic individuals.

DESCRIPTION

Recombinant BV-PLA2 produced in *E. coli* corresponds to aa 26-162 of this enzyme.

SPECIFICATION SUMMARY

Source: *Escherichia coli*

Purity: Greater than 95% as determined by 10% PAGE and RP-HPLC.

APPLICATIONS

May be used as antigen in ELISA and Western blots.

STORAGE AND STABILITY

Stable for at least 1 year if stored at or below -20°C. Avoid repeated freeze-thaw cycles.

For in vitro investigational use only. Not for use in therapeutic or diagnostic procedures.