
Product Data Sheet

Product Name: Phospholipase A2
Cat. No.: GP25125
Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Phospholipase A2; Phosphatidylcholine 2-acylhydrolase; Allergen Api m I; Api m 1.		
Formulation	20mM Tris-HCl, pH 7.2, 1.5M urea and 50% glycerol.		

Introduction

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 14kDa 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.

Stability

Phospholipase A2 although stable at 4°C for 1 week, should be stored below -18°C. Please prevent freeze thaw cycles.

Background

The E.Coli derived recombinant protein contains phospholipase P00630 bee venom protein epitopes, 26-162 amino acids.

Caution: Product has not been fully validated for medical applications. For research use only.

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