DATASHEET

Recombinant Apis Mellifera Phospholipase A2/Api m1

CAT. NO. ARP6804

KEY FEATURES

Target	Apis Mellifera Phospholipase A2/Api m1	Source/Expression System	E.coli
Aapplication	SDS-PAGE	Abbreviation	rApi m1
Synonyms	PLA2		

BACKGROUND

Api m1, a glycoprotein of the phospholipase 2 (PLA2) family, is a major allergen of Apis mellifera (honeybee) venom (HBV) and a marker allergen for genuine sensitization to this venom. Api m 1 contributes 12-16% of venom dry weight. Api m 1 is consistently found as a major allergen in HBV-allergic patients. Of the 12 known allergens within HBV, Api m 1 is considered the most prominent allergen, in terms of prevalence of sensitization, levels of specific IgE to Api m 1, and quantitative correlation between Api m 1 and HBV specific IgE. Api m 1 does not cross-react with phospholipases of the PLA1 family found in Vespid venoms, therefore, Api m 1 is a marker allergen allowing to discriminate between HBV and Vespid venom sensitization. Recombinant Api m1 is a 15.2kDa globular protein containing 134 amino acid residues.

PRODUCT OVERVIEW

Molecular Weight	Approximately 15.2 kDa, a single non-glycosylated polypeptide chain containing 134 amino acids.
Accession	P00630 Ile34-Tyr167
A.A. Sequence	IIYPGTLWCGHGNKSSGPNELGRFKHTDACCRTHDMCPDVMSAGESKHGLTNTASHTRLSCDCDDKFYDCLKNSA DTISSYFVGKMYFNLIDTKCYKLEHPVTGCGERTEGRCLHYTVDKSKPKVYQWFDLRKY
Purity	＞97% by SDS-PAGE or HPLC.
Biological Activity	Strong Reactivity to honeybee stung positive serum by IGEs test.
Formulation	Lyophilized from a 0.2 μm filtered concentrated solution in 20 mM PB, with 150 mM NaCl, pH 7.4.
Appearance	Sterile filtered White lyophilized (freeze-dried) powder.
Endotoxin	< 0.01 EU/μg of rApi m1 protein as determined by LAL method.
Reconstitution	Before use this product, please read the direction below carefully. This vial must be briefly centrifuged prior to opening to bring the contents to the bottom. Stock solutions should be apportioned into working aliquots and stored at ≤ -20°C. Further dilutions should be made in appropriate buffered solutions.

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STORAGE

For long term storage, the product should be stored ≤ -20°C. Please avoid repeated freeze-thaw cycles after reconstitution. 36 months from date of receipt, -20 to -70°C as supplied. 1 month, 2 to 8°C under sterile conditions after reconstitution. 3 months, -20 to -70°C under sterile conditions after reconstitution.

NOTE

For Research Use Only. Not for diagnostic, therapeutics, prophylactic or in vivo use.