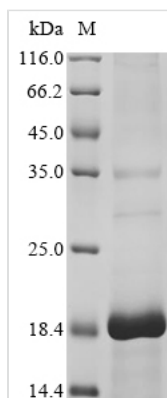




Recombinant Apis mellifera Phospholipase A2

Product Code	CSB-EP018091DNK
Abbreviation	Recombinant Apis mellifera Phospholipase A2 protein
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	P00630
Storage Buffer	Tris-based buffer,50% glycerol
Product Type	Recombinant Proteins
Immunogen Species	Apis mellifera (Honeybee)
Purity	Greater than 85% as determined by SDS-PAGE.
Sequence	IIYPGTLWCGHGNKSSGPNELGRFKHTDACCRTDHMCPCDVMSAGESKHGLTN TASHTRLSCDCDDKFYDCLKNSADTISSYFVGKMYFNLIDTKCYKLEHPVTGC GERTEGRCLHYTVDKSKPKVYQWFDLRKY
Research Area	Others
Source	E.coli
Target Names	N/A
Protein Names	Recommended name: Phospholipase A2 EC= 3.1.1.4 Alternative name(s): Allergen Api m I Phosphatidylcholine 2-acylhydrolase Allergen= Api m 1
Expression Region	34-167aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 6xHis-tagged
Mol. Weight	19.3 kDa
Protein Length	Full Length of Mature Protein

Image



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.



Description

This Recombinant *Apis mellifera* Phospholipase A2 was produced in *E.coli*, where the gene sequence encoding *Apis mellifera* Phospholipase A2 (34-167aa) was expressed with the N-terminal 6xHis tag. The purity of this Phospholipase A2 was greater than 85% by SDS-PAGE.

Phospholipase A2, abbreviated as PLA2, is a class of enzymes with its primary function being the hydrolysis of phospholipids, a major type of lipid present in cell membranes, to produce free fatty acids and soluble phospholipids. This process plays a crucial role in the metabolism of cell membranes, cell signal transduction, and inflammatory responses.

PLA2 also plays a role in the defense mechanisms of bees. Bee stings contain venom that includes proteins like PLA2, which are used to defend against predators. These proteins may cause the cell membranes of adversaries to rupture, leading to pain and an inflammatory response.

Proteins like PLA2 are also of significant value in medical research because they are associated with inflammatory conditions, neurological disorders, and other diseases. Some drugs and treatment approaches target PLA2 enzymes in the search for ways to treat inflammatory diseases.

Shelf Life

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.

Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.