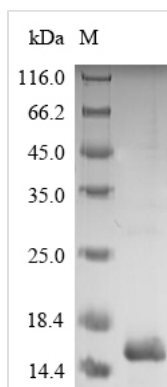




Recombinant Dermatophagoides pteronyssinus

Mite group 2 allergen Der p 2 (DERP2)

Product Code	CSB-YP343403DJH
Abbreviation	Recombinant Dermatophagoides pteronyssinus DERP2 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.	P49278
Alias	Allergen Der p II DPX Allergen: Der p 2
Product Type	Recombinant Protein
Immunogen Species	Dermatophagoides pteronyssinus (European house dust mite)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	DQVDVKDCANHEIKKVLVPGCHGSEPCIIHRGKPFQLEAVFEANQNTKTAKIEI KASIDGLEVDVPGIDPNACHYMKCPLVKGQQYDIKYTNWVPKIAPKSENVVVT VKVMGDDGVLACAIATHAKIRD
Research Area	Cell Biology
Source	Yeast
Target Names	DERP2
Protein Names	Recommended name: Mite group 2 allergen Der p 2 Alternative name(s): Allergen Der p II DPX Allergen= Der p 2
Expression Region	18-146aa
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	16.1kDa
Protein Length	Full Length of Mature Protein
Image	



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

Description

The N-terminal 6xHis tag was fused to the gene fragment corresponding to the 18-146aa of the Dermatophagoides pteronyssinus DERP2 protein and then was cloned into an expression vector. The expression vector was transfected into the yeast cells for expression. The generated product was purified and separated to obtain the recombinant Dermatophagoides pteronyssinus DERP2 protein. Its purity is higher than 90%. This recombinant Dermatophagoides pteronyssinus DERP2 protein showed an apparent molecular weight of about 16 kDa under SDS-PAGE condition.

DERP2 is a gene encoding a protein named Mite group 2 allergen Der p 2 and belongs NPC2 family. Allergic disease can be characterized as manifestations of an exaggerated inflammatory response to environmental allergens triggers. The house dust mite is a major source of environmental inhalation allergens involved in the pathogenesis of anaphylactic type reactions in humans and animals. Mite allergen Der-p2 (DERP2) is one of the major allergens of the house dust mite, which contributes to TLR4 expression and function in B cells in allergic patients. However, the precise mechanisms of Der-p2 on B cells remain obscure.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

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