

Fel d 1 recombinant protein

Recombinant allergen Fel d 1 for Felis domesticus (cat)

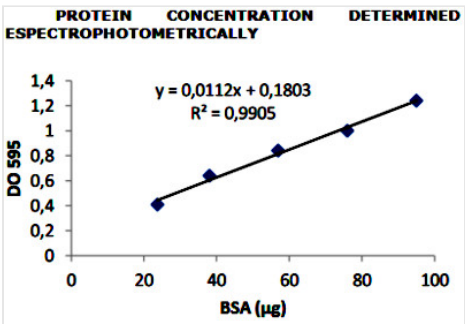
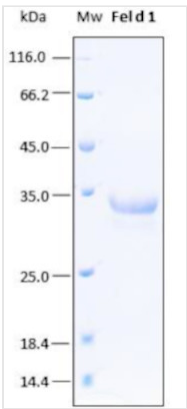
CATALOG # AAA14241	HOST Pichia pastoris	APPLICATIONS ELISA
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PRODUCT SYNONYMS

Fel d 1; Recombinant allergen Fel d 1 for Felis domesticus (cat); Fel d 1 recombinant protein

PRODUCT SPECIFICATIONS

Host	Pichia pastoris
Form/Format	Dry powder (stabilized with 5 % trhalose) ; 20 mM HEPES buffer pH 8 and 0.15 M NaCl (Before lyophilization)
Concentration	1.92 mg/ml (varies by lot)
Applicable Applications for Fel d 1 recombinant protein	ELISA
Application Notes	Possible Applications: Western Blot (WB), Dot Blot (DB), Indirect ELISA, Positive Control in Direct ELISA, Chemiluminescence Immunoassays (CLIA), Lateral Flow (LF). Where this product has not been tested for use in a particular technique, this does not necessarily include its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates. The lab strongly recommends utilizing anti-CCD (cross-reactive-carbohydrate determinants) absorbent to eliminate the anti-CCD IgE antibodies present in normal human sera to prevent cross-reaction of this glycoprotein. By using this absorbent, reactions resulting from CCDs are stopped. In the specific case, you measure IgG with an allergen produced in P. pastoris, the lab recommends using an anti-CCD sorbent (Please Inquire) to avoid cross-reaction with antibodies in sera which react with fungal high mannose glycans.
Batch Composition	- Components: his-Fel d 1 - Composition: recombinant allergen with a his-tag
Absence of Precipitation After a Freezing and Thawing Cycle	OK
Recombinant Allergen	Fel d 1 is the major allergen of Felis domesticus (cat) (Ohman et al., 1976).
Observations	Proteins should be maintained frozen at high concentrations. In order to defrost the protein, maintain the aliquot at 25°C without shaking to avoid aggregation. Prior to making test dilutions and after defrosting the protein, it is recommended to remove possible protein aggregates by centrifuging the stock solution, avoiding alterations in the immobilization of the biomolecule to the solid surface.
Reconstitution	With 0.461 ml of sterile double-distilled water for a final concentration of 1.92 mg/mL will be obtained. The solubilization of the cake should be developed for 15 minutes to allow a homogenous protein solution, considering that part of the cake can be on the glass-walls of the container. Upon reconstitution, leave the solution at least 15min. homogenizing with a mild agitation at 4°C. Avoid vigorous shaking that can cause foaming and protein denaturation. With this reconstitution, the protein will be maintained at 8. It is recommended that the users carry out their absorbance determinations to avoid concentrations variabilites due to the equipment used, mainly in reproducibility analysis.
Preparation and Storage	Upon receipt , store at 4°C to -20°C in vertical position, avoiding all possible humidity and maintaining the vial dry. Once reconstituted, it shold be aliquoted to avoid freezing and thawing cycles and stored at -20°C to -80°C.



ELISA
Protein concentration determined espectrophotometricallyThis protein does not contain any Trp residues. Experience shows that this could result in more than 10% error in the computed extinction coefficient. Therefore, we have measured the protein concentration by using the colorimetric assay based on the interaction between Coomassie brilliant blue and the arginine and aromatic residues (Bradford Method) and its maximum absorption shifts from 470 nm to 595 nm. The standard curve was performed with the protein BSA.

ADDITIONAL INFORMATION

Related Product Information for Fel d 1 recombinant protein	The Felis domesticus uteroglobin Fel d 1 has been prepared as the recombinant mature protein composed of two chains and fused to a his-tag. Fel d 1 chain 1 and chain 2 are fused by a peptide linker γ N-glycosylation motif at position 103 was mutated. Tetramer composed of covalently linked heterodimers of chains 1 and 2.
References	Ohman, J. L., Lowell, F. C., Bloch, K. J. and Kendall, S. Allergens of mammalian origin V. properties of extracts derived from domestic cat. 1976, Clin. Allergy 6:419-28. Calculation of protein extinction coefficients from amino acid sequence data. Anal Biochem. 1989 Nov 1;182(2):319-26.

NCBI AND UNIPROT INFORMATION

Molecular Weight	SDS-PAGE analysis determines that the protein band is between molecular markers of 35,000 Da and 25,000 Da due to the glycosylation pattern, while relative molecular mass, calculated from amino acid sequence and without glycosylation, is 22,090.19 Da.
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For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/fel-d-1-recombinant-protein-pichia-pastoris-elisa/14241>