

Phl p 5b recombinant protein

Recombinant allergen Phl p 5b for Phleum pratense (Timothy grass pollen)

CATALOG # AAA72866	HOST E Coli	APPLICATIONS ELISA
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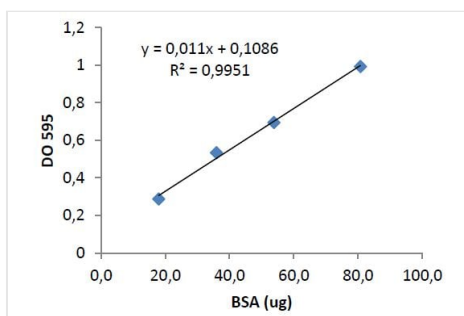
PRODUCT SYNONYMS

Phl p 5b; Recombinant allergen Phl p 5b for Phleum pratense (Timothy grass pollen); Phl p 5b recombinant protein

PRODUCT SPECIFICATIONS

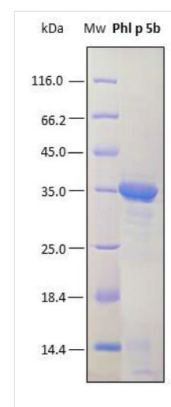
Host	E Coli
Purity/Purification	15% SDS-PAGE
Form/Format	Dry powder (lyophilized)
Concentration	1.44 mg/ml (varies by lot)
Applicable Applications for Phl p 5b recombinant protein	ELISA
Organism	Plehum Pratense
Storage Buffer	50 mM MES pH 6.5 and 0.1 M KCl
Quality Control	- Protein concentration determined spectrophotometrically. - Purity control in SDS-PAGE: 15% - No precipitate observed after a freezing and thawing cycle.
Reconstitution	For lyophilized proteins: with 0.04 ml of sterile double-distilled water (lot specific) for a final concentration of 1.59 mg/ml (lot specific). The protein will be at pH 8.
Preparation and Storage	Lyophilized protein is shipped with on ice packs. Upon arrival, it should be stored at 20 degree C to -80 degree C. Aliquot after reconstitution in order to avoid repeated freezing and thawing cycles and store at 20 degree C to -80 degree C.

IMAGES



Application Data

This 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. 40 ul of the protein were analysed. $DO_{595} = 0.746$



SDS-PAGE

Figure 1. SDS-PAGE analysis (15%) of 4 ul of recombinant allergen. Purity is > 95% as determined by gel electrophoresis.

ADDITIONAL INFORMATION

Related Product Information for Phl p 5b recombinant protein	Recombinant Allergen: Phleum pratense Phl p 5 is one of major pollen allergen of timothy grass and accounts for IgE binding in up to 60% of patients (Vrtala et al., 1993). Phl p 5b is one of the isoallergenic groups of Phl p 5 (van Neerven et al., 1992). Description: The Phleum pratense major isoallergen Phl p 5b has been prepared as the recombinant mature allergen fused to a his-tag.
References	Vrtala, S., Sperr, W.R., Reimitzer, I., van Ree, R., Laffer, S., Muller, W.D., Valent, P., Lechner, K., Rumpold, H., Kraft, D. cDNA cloning of a major allergen from timothy grass (Phleum pratense) pollen; characterization of the recombinant Phl pV allergen. 1993. J. Immunol. 151, 4773-4781. van Neerven RJ1, Wikborg T, Lund G, Jacobsen B, Brinch-Nielsen A, Arnved J, Ipsen H. Blocking antibodies induced by specific allergy vaccination prevent the activation of CD4+ T cells by inhibiting serum-IgE facilitated allergen presentation. 1999. J Immunol. 163:2944-52. Bradford, MM. A rapid and sensitive method for the quantitation of microgram quantities of protein utilizing the principle of protein dye binding. Anal Biochem. 1976, 131:499-503.

NCBI AND UNIPROT INFORMATION

Molecular Weight	Predicted MW: 32.7 kDa Observed MW: 25-35 kDa
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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/phl-p-5b-recombinant-protein-e-coli-elisa/72866>