

Phl p 7 recombinant protein

Recombinant allergen Phl p 7 apo-protein for Phleum pratense (Timothy grass pollen)

CATALOG #
AAA72867

HOST
E Coli

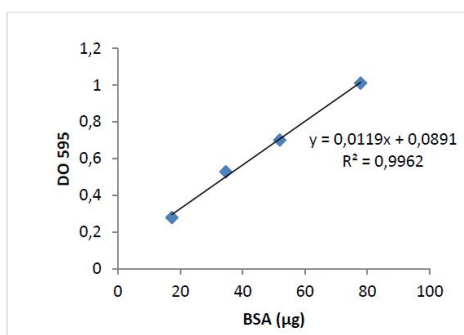
PRODUCT SYNONYMS

Phl p 7; Recombinant allergen Phl p 7 apo-protein for Phleum pratense (Timothy grass pollen); Phl p 7 recombinant protein

PRODUCT SPECIFICATIONS

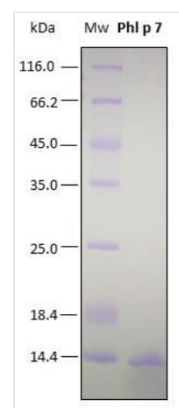
Host	E Coli
Purity/Purification	15% SDS-PAGE
Form/Format	Dry powder (lyophilized)
Concentration	1.86 mg/ml (varies by lot)
Organism	Plehum Pratense
Storage Buffer	20 mM phosphate buffer pH 8 and 0.15 NaCl and 5 mM EDTA
Quality Control	1. Protein concentration determined spectrophotometrically. 2. Purity control in SDS-PAGE: 15% 3. 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 µl of the protein were analysed. DO595 = 0.977



SDS-PAGE

Figure 1. SDS-PAGE analysis (15%) of 5 µl of the recombinant allergen. Purity is >95% as determined by gel electrophoresis.

ADDITIONAL INFORMATION

Related Product Information for Phl p 7 recombinant protein	Recombinant Allergen: Phleum pratense Phl p 7 apoprotein (Niederberger et al., 1999). Description: The Phleum pratense polcalcin has been prepared as a recombinant allergen fused to a his-tag. It is produced from the complete ORF of the Phl p 7 gene, which codifies the calcium-binding protein p 7.
References	Verena Niederberger et al. Calcium-dependent immunoglobulin E recognition of the apo- and calciumbound form of a cross-reactive two EF-hand timothy grass pollen allergen, Phl p 7. 1999, FASEB J., 13:843-856. 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: 15.1 kDa Observed MW: 14.4 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-7-recombinant-protein-e-coli/72867>