

Bet v 4 recombinant protein

Recombinant allergen Bet v 4 for Betula verrucosa (European white birch)

CATALOG #
AAA72871

HOST
E Coli

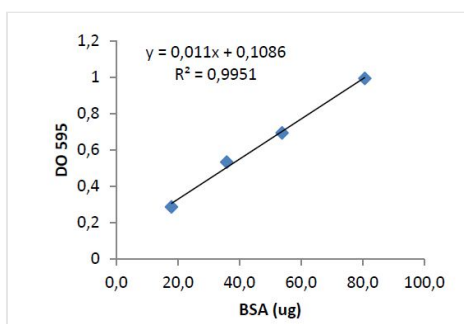
PRODUCT SYNONYMS

Bet v 4; Recombinant allergen Bet v 4 for Betula verrucosa (European white birch); Bet v 4 recombinant protein

PRODUCT SPECIFICATIONS

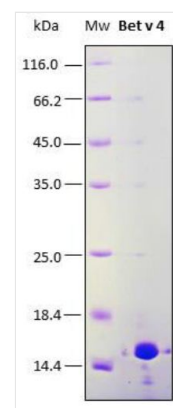
Host	E Coli
Purity/Purification	17% SDS-PAGE
Form/Format	Dry powder (lyophilized)
Concentration	1.1 mg/ml (varies by lot)
Organism	Betula Verrucosa/ Betula Pendula
Storage Buffer	50 mM HEPES pH 8.5 and 0.1 M KCl
Quality Control	1. Protein concentration determined spectrophotometrically. 2. Purity control in SDS-PAGE: 17% 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 ul of the protein were analysed. DO595 = 0.593



SDS-PAGE

Figure 1. SDS-PAGE analysis (17%) of 4 ul of recombinant allergen. Purity is >95% as determined by gel electrophoresis.

ADDITIONAL INFORMATION

Related Product Information for Bet v 4 recombinant protein	Recombinant Allergen: Betula verrucosa Bet v 4 is a novel and minor birch pollen allergen (Engel et al., 1997). Description: The Betula verrucosa polcalcin Bet v 4 has been prepared as the recombinant mature protein fused to a his-tag.
References	Engel E, Richter K, Obermeyer G, Briza P, Kungl AJ, Simon B, Auer M, Ebner C, Rheinberger HJ, Breitenbach M, Ferreira F. Immunological and biological properties of Bet v 4, a novel birch pollen allergen with two EF-hand calcium-binding domains. 1997, J Biol Chem. 272:28630-7. 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: 15.9 kDa Observed MW: 14,400 - 18.4 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/bet-v-4-recombinant-protein-e-coli/72871>