

Bet v 1d (Bet v 1.0401)

(Betula verrucosa, birch pollen allergen 1, Isoform d)

Bet v 1d is an isoform with strongly reduced allergenicity.

For research purpose only.



BIOMAY AG

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PRODUCT DESCRIPTION:

Access: EMBL: X77266/Swissprot: P43177

Mw = 17,418 Dalton (according to sequence from database without Methionine)

Mol. Ext. Coeff.: 10,430; 1 mg/ml $A_{280}=0.599^*$

pI = 5.6

Lot#: 08a

Amount: 200 µg

Quality: Purity ≥ 98%

Endotoxin content: 0.072 EU/µg

Reacts with IgE from Bet v 1d reactive human serum

General information:

Bet v 1d is a natural isoform of *Bet v 1a* with low allergenicity but high T-cell stimulation.

BIOMAY Bet v 1d is a lyophilized recombinant protein produced in *E. coli*. It was purified by conventional biochemical methods and High Pressure Liquid Chromatography (HPLC).

Reconstitution:

The material can be reconstituted with distilled water (or equivalent) or dilute buffers. Thorough agitating during dissolution is essential. Do not use salt concentrations exceeding 20 mM to dissolve the lyophilized material. Salt may be added after dissolution.

If reconstituted to a concentration of 1 mg/ml the product is soluble to better than 98%. The pH will be approx. 7.2. and $\text{Na}_x\text{H}_x\text{PO}_4$ -concentration 3 mM.

Storage:

When stored at -20°C the quality of the material will be maintained for several years. However, for short periods (max. 3 weeks) the lyophilized product may be kept at room temperature. After reconstitution store at -20°C . Avoid repeated freezing/thawing.

Quality control:

Purity has been determined by SDS-PAGE and staining with Coomassie Brilliant Blue R-250.

Endotoxin content was determined by using a Limulus Amebocyte Lysate (LAL) assay.

Bet v 1d Lot# 08a tested positive in an IgE-Immunoblot and ELISA with a standardized pool of human Bet v 1d-reactive sera, but with significantly reduced affinity as compared to Bet v 1a.

* The mol.ext.coeff. was calculated from the DNA-derived protein sequence as described by Gill, S.C. and by Hippel, P.H. (1989), Analytical Biochemistry **182**, 319-326.

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Endotoxin content: 0.072 EU/ μ g

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