

# *Bet v 1d*

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

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

For research purpose only.

## PRODUCT DESCRIPTION:

**Access:** EMBL: X77266/Swissprot: P43177

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

**Mol. Ext. Coeff.:** 10,150; 1 mg/ml  $A_{276}=0.58^*$

**pI** = 5.6

**Lot#:** 08a

**Amount:** 1 mg

**Purity:**  $\geq 98\%$

**Reacts with IgE** from *Bet v 1d* reactive human serum

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### 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  $-20^\circ\text{C}$  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  $-20^\circ\text{C}$ . Avoid repeated freezing/thawing.

### Quality control:

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

*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*.

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\* 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.