

Bet v 2 Profilin-2

(*Betula verrucosa*, birch pollen allergen 2, profilin-2)

For research purpose only.



BIOMAY AG
Vienna Competence Center
Lazarettgasse 19 Top 1
A-1090 Wien

Tel: +43 1 7966296-0
Fax: +43 1 7966296-111
e-mail: info@biomay.com
www.biomay.com

PRODUCT DESCRIPTION:

Access: Uniprot: A4K9Z8

Mw = 14,147 Dalton (according to sequence from database, without initial Methionine)

Mol. Ext. Coeff.: 16960; 1 mg/ml $A_{280}=1.199^*$

Theoretical pI : 5.02

Lot#: 09

Amount: 1 mg

Quality: Purity >98%

Endotoxin content: 0.009 EU/ μ g

Reacts with IgE from Bet v 2 reactive human serum

General information:

BIOMAY Bet v 2 is a recombinant protein with IgE-binding capacity. It was produced by heterologous expression in *E. coli*, purified by conventional biochemical methods, and lyophilized from 5mM PO₄ buffer (pH 7,4).

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 1 mg/ml the product is soluble to at least 98% and the PO₄ concentration will be 0,9 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 2 Lot# 09 tested positive in an IgE-Immunoblot with a standardized pool of human Bet v 2-reactive sera.

* 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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Access: Uniprot: A4K9Z8

Mw = 14,147 Dalton (according to sequence from database, without initial Methionine)

Mol. Ext. Coeff.: 16960; 1 mg/ml $A_{280}=1.199^*$

Theoretical pI : 5.02

Lot#: 09a

Amount: 250 µg

Quality: Purity: 97%²⁾

Endotoxin content: 0.0008 EU/µg

Reacts with IgE from Bet v 2 reactive human Serum²⁾

General information:

BIOMAY Bet v 2 is a recombinant protein with IgE-binding capacity. It was produced by heterologous expression in *E. coli*, purified by conventional biochemical methods, and lyophilized from sodium phosphate buffer pH 7.4.

Quality control of the product:

Purity has been determined on SDS-PAGE gels stained with Coomassie Brilliant Blue R-250. Endotoxin content was determined by using a Limulus Amoebocyte Lysate (LAL) assay. The above stated lot tested positive in an IgE-Immunoblot with a standardized pool of human Bet v 1a -reactive sera.

Storage of lyophilized product:

When stored at $\leq -15^{\circ}\text{C}$ the quality of the lyophilized material is maintained for several years (see expiration date on the vial). For short periods (max. 3 weeks) the lyophilized product may be kept at room temperature.

Reconstitution properties:

To achieve a complete solubilization of the product, we recommend to reconstitute the lyophilized protein to a concentration of 1 mg/mL with water of appropriate quality. Higher protein concentrations are not recommended. After complete reconstitution the product concentration can be adjusted with the desired buffer as required, whereby the product must be principally soluble under the conditions applied.

Reconstitution procedure:

Carefully inspect the vial for the location of the lyophilisate pellet. Some lyophilisates or pieces thereof are loose and might be located near the cap. In this case spin down the lyophilisate in a suitable centrifuge. Open the cap just as wide as necessary and pipet 250 µL of water of appropriate quality into the vial. Close the cap and invert the vial several times, so that the complete lyophilisate and the whole inner surface of the vial are wetted. Incubate the vial for 2 h at room temperature on a rolling or an overhead incubator. Alternatively manual agitation can be applied by inverting the vial several times followed by gentle vortexing. This manual agitation procedure should be repeated several times during the incubation time. After the incubation time carefully visually inspect the tube for remaining undissolved material and eventually continue the incubation until the product is completely dissolved.

Storage of reconstituted product:

Reconstituted product which is not used directly after reconstitution should be aliquoted in small aliquots (10-50 µL) and stored at $\leq -15^{\circ}\text{C}$. After thawing use these aliquots at once and avoid repeated freezing/thawing cycles.

¹⁾ 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.

²⁾ Purity calculation from SDS-PAGE is based on two IgE-reactive bands at 14 kD and 14.5 kD, representing 77% and 20% of total protein, respectively.