

Hev b 8

(Profilin from *Hevea brasiliensis*)

For research purpose only.



BIOMAY AG

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PRODUCT DESCRIPTION:

Access: EMBL: 243325/Swissprot: Q9LEI8

Mw = 13,904 Dalton

Mol. Ext. Coeff.: 17,085; 1mg/ml $A_{280} = 1.23^*$

pI = 4.97

Lot#: 01a

Amount: 250 μ g

Quality: Purity > 99%

Endotoxin content: 0,010EU/ μ g

Reacts with IgE from Hev b 8 reactive human serum.

General Information:

BIOMAY Hev b 8 is expressed in *E. coli*. and was purified by conventional biochemical methods. The product was lyophilized from phosphate buffer pH 7.4. The product binds specific human IgE.

Reconstitution:

The material can be reconstituted with water or diluted buffers. If reconstituted with water or buffers (2mM β -Mercaptoethanol) to 1 mg/ml the product is soluble to >99% and the phosphate concentration will be app. 1.2 mM. Thorough physical suspension of the protein is essential.

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:

By SDS-PAGE and staining with Coomassie-blue R-250. Endotoxin content was determined by using a Limulus Amebocyte Lysate (LAL) assay. Immunological properties were controlled by SDS-PAGE\Western-blotting with Hev b 8- specific human IgE and monoclonal antibodies, that were raised against Hev b 8 .

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

Hev b 8 (Hev b 8.0204)

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Access: EMBL: AJ243325/Swissprot: Q9LEI8

Mw = 13,904 Dalton

Mol. Ext. Coeff.: 17,085; 1mg/ml $A_{280}=1.229^*$

pI = 4.97

Lot#: 01

Amount: 1 mg

Quality: Purity better than 99%

Endotoxin content: 0,001 EU/ μ g

Reacts with IgE from *Hev b 8* reactive human serum

General Information:

BIOMAY *Hev b 8* is expressed in *E. coli*. and was purified by conventional biochemical methods. The product was lyophilized in 5 mM PO_4 buffer. (The product binds specific human IgE.)

Reconstitution:

The material can be reconstituted with water or diluted buffers. If reconstituted with water or buffers (2mM β -Mercaptoethanol) to 2 mg/ml PO_4 concentration will be app. 2 mM.

If reconstituted with water or buffers (2mM β -Mercaptoethanol) to 2 mg/ml, the product is soluble to app. 99%. Thorough physical suspension of the protein is essential. Alternatively the product can be dissolved in 6M Urea, 1mM β -Mercaptoethanol. The urea solution can be dialyzed against a suitable buffer (20 mM Tris/HCl pH 8.0 1mM β -Mercaptoethanol) without precipitation of protein.

Storage:

The lyophilized product can be kept at room temperature for at least 2 weeks. However, we recommend the product to be stored at $-20^{\circ}C$. Under these conditions the quality of the material will be maintained for several years. The stability at $4^{\circ}C$ should at least be 6 months. Reconstituted protein can be stored at $-20^{\circ}C$.

Quality control:

By SDS-PAGE and staining with Coomassie-blue R250. Endotoxin content was determined by using a Limulus Amebocyte Lysate (LAL) assay. (Immunological properties were controlled by SDS-PAGE\Western-blotting with *hev b 8*- specific human IgE and monoclonal antibodies, that were raised against *Hev b 8*.)

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