

Hev b 5-MBP

(Allergen 5 from *Hevea brasiliensis*,
Maltose binding protein fusion)

For research purpose only.

PRODUCT DESCRIPTION:

Access:EMBL U42640/Swissprot: Q39967

Mw = 58 273 Dalton

Mol. Ext. Coeff.: 65800; 1mg/ml $A_{278}=1.13$

pI = 4.53

Lot#: 01

Amount: 1 mg

Quality: Purity better than 98%

General Information

BIOMAY Hev b 5 is expressed in *E. coli* as a fusion protein with maltose binding protein and was purified by affinity chromatography and ion exchange chromatography. The product was lyophilized in 5 mM NH_4HCO_3 (volatile) containing 1% sucrose.

Reconstitution:

The material can be reconstituted with water or diluted buffers. If reconstituted with water or buffers (2mM β -Mercaptoethanol) to 2 mg/ml sucrose concentration will be app. 0.6%.

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°C . Under these conditions the quality of the material will be maintained for several years. The stability at 4°C should at least be 6 months. Reconstituted protein can be stored at -20°C .

Quality control:

By SDS-PAGE and staining with Coomassie-blue R250. (Immunological properties were controlled by SDS-PAGE/Western-blotting with Hev b 5-specific human IgE and monoclonal antibodies, that were raised against Hev b 5.)

* 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.