

Hev b 5-MBP

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

For research purpose only.



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PRODUCT DESCRIPTION:

Access:EMBL U42640/Swissprot: Q39967

Mw = 58 273 Dalton

Mol. Ext. Coeff.: 66350; 1mg/ml $A_{280}=1.139$

pI = 4.53

Lot#: 01a

Amount: 250 μ g

Quality: Purity > 98%

Endotoxin content: 0,037 EU/ μ g

Reacts with IgE from Hev b 5 reactive human serum.

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 from phosphate buffer pH 7,4 containing sucrose.

Reconstitution:

The material can be reconstituted with water or diluted buffers. If reconstituted with water or buffers (2 mM β -Mercaptoethanol) to 1 mg/ml the product is soluble to >99%, the phosphate concentration will be 0.9 mM and the sucrose concentration will be app. 0.3%. 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 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.