



Hev b 1 – MBP

(Allergen 1 from *Hevea brasiliensis*, Fusion to Maltose Binding Protein)

For research purpose only.

PRODUCT DESCRIPTION:

Access : EMBL: X56535 /Swissprot: P15252

Mw Fusion= 56,950 Dalton

Mol. Ext. Coeff.Fusion: 75,290; 1mg/ml $A_{280}=1.32$

pI = 5.08

Lot#: 02a

Amount: 250 µg

Quality: Purity ≥ 90%

Endotoxin content: 11 EU/µg

Reacts with IgE from Hev b 1-reactive human serum

BIOMAY AG

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General Information

BIOMAY Hev b 1-MBP is a recombinant fusion protein consisting of Maltose binding protein (MBP) and Hev b 1 fused to the C-terminal end of MBP.



The construct contains a factor Xa cleaving site that allows the isolation of the Hev b 1 protein. It was produced by heterologous expression in *E. coli*, purified by conventional biochemical methods, and lyophilized from a formulation buffer containing phosphate, 2 mM β-Mercaptoethanol, pH 7,4 and sucrose. **Please note that the lyophilized product contains 1.6 mg sucrose per mg Hev b 1-MBP.**

Reconstitution:

The material should be reconstituted with dilute buffers having a pH between 7.4 and 8.5. Do not use salt concentrations exceeding 20 mM to dissolve the lyophilized material. Salt may be added

after dissolution. Gentle agitation during dissolution is essential, afterwards incubate for 30 min to allow a complete reconstitution of the protein. As stated above the solution contains sucrose, which can be removed by dialysis against the reconstitution buffer. If reconstituted to 1 mg/ml the product will be soluble to at least 95% and the phosphate concentration will be 1,2 mM.

Storage:

The material can be reconstituted with distilled water (or equivalent) or dilute buffers. Thorough agitation during dissolution is essential. Do not use salt concentrations exceeding 20 mM to dissolve the lyophilized material. Salt may be added after dissolution.

Quality control:

Purity has been determined on SDS-PAGE gels stained with Coomassie Brilliant Blue R-250. Endotoxin content was determined by using a Limulus Amebocyte Lysate (LAL) assay. Hev b 1-MBP Lot# 02a tested positive in an IgE-Immunoblot using a standardized pool of human Hev b 1-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.

Please, note that for reasons of shortness only the allergenic content is stated on the product label.

V.5 (100121>)



Hev b 1 – MBP (Hev b 1.0101)

(Allergen 1 from *Hevea brasiliensis*, Fusion to Maltose Binding Protein)

For research purpose only.

PRODUCT DESCRIPTION:

Access : EMBL: X56535 /Swissprot: P15252

Mw Fusion= 56,950 Dalton

Mol. Ext. Coeff.Fusion: 75,290; 1mg/ml $A_{280}=1.32$

pI = 5.08

Lot#: 02

Amount: 1 mg

Quality: Purity \geq 90%

Endotoxin content: 124 EU/ μ g

Reacts with IgE from Hev b 1-reactive serum

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General Information

BIOMAY Hev b 1-MBP is a recombinant fusion protein consisting of Maltose binding protein (MBP) and Hev b 1 fused to the C-terminal end of MBP.



The construct contains a factor Xa cleaving site that allows the isolation of the Hev b 1 protein. It was produced by heterologous expression in *E. coli*, purified by conventional biochemical methods, and lyophilized from a formulation buffer containing 5 mM NH_4HCO_3 , 2 mM 2-Mercaptoethanol (both volatile) and 1 Vol% Sucrose. **Please note that sucrose is not volatile and therefore the lyophilized product contains 1.6 mg Sucrose per mg Hev b 1-MBP.**

Reconstitution:

The material should be reconstituted with dilute buffers having a pH between 7.4 and 8.5. Do not use salt concentrations exceeding 20 mM to dissolve the lyophilized material. Salt may be added

after dissolution. Gentle agitation during dissolution is essential, afterwards incubate for 30 min to allow a complete reconstitution of the protein. As stated above the solution contains sucrose, which can be removed by dialysis against the reconstitution buffer. If reconstituted to 1 mg/ml the product will be soluble to at least 95%.

Storage:

When stored at -20°C the quality of the material will be maintained until the expiry date printed on the vial. The expiry date is also valid if the lyophilized product has been kept at room temperature for less than 3 weeks. After reconstitution store at $+4^\circ\text{C}$ in reconstitution buffer. Freezing and thawing of dissolved Hev b 1-MBP is accompanied with a partial precipitation of the protein and should be performed as quick as possible.

Quality control:

Purity has been determined on SDS-PAGE gels stained with Coomassie Brilliant Blue R-250. Endotoxin content was determined by using a Limulus Amebocyte Lysate (LAL) assay. Hev b 1-MBP Lot# 02 tested positive in an IgE-Immunoblot using a standardized pool of human Hev b 1-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.