

# *Cla h* MtDH (*Cla h* 8.0101)

(*Cladosporium herbarum*, allergen 8)

*Cla h* 8 (IUS) has Mannit Dehydrogenase activity.

For research purpose only.



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## PRODUCT DESCRIPTION:

**Access:** EMBL: AY191816 UniProt: P0C0Y5

**Mw** = 28464.0

**Mol. Ext. Coeff.:** 31,650; 1 mg/ml  $A_{280}=1.112^*$

**pI** = 5.90

**Lot#:** 01

**Amount:** 1 mg

**Quality:** Purity > 96%

Endotoxin content: 0.042 EU/ $\mu$ g

**Reacts with IgE** from *Cla h* MtDH reactive human serum

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### General information:

BIOMAY *Cla h* MtDH (*Cla h* 8) is a lyophilized, recombinant protein with IgE-binding capacity. It was produced by heterologous expression in *E. coli* and purified from inclusion bodies by conventional biochemical methods. Lyopilyzation was performed in the presence of 10 mM sodium phosphate pH 7.4 and 6% sucrose. The immunological properties of the product are comparable to those of the natural product, but the present preparation shows no enzymatic activity.

### Reconstitution:

The material can be reconstituted with distilled water (or equivalent) or dilute buffers. Addition of 1-2 mM  $\beta$ -Mercaptoethanol is recommended.

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.

If reconstituted to a concentration of 1 mg/ml, the

product is soluble to more than 96%; the concentration of phosphate buffer (pH 7.4) will be 3.1 mM and sucrose concentration will be 1.8 %.

### Storage:

When stored at  $-20^{\circ}\text{C}$  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  $-20^{\circ}\text{C}$ . 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.

*Cla h* MtDH (*Cla h* 8) Lot# 01 tested positive in an IgE-Immunoblot with a standardized pool of human *Cla h* MtDH-reactive sera.

This product has no enzymatic activity.

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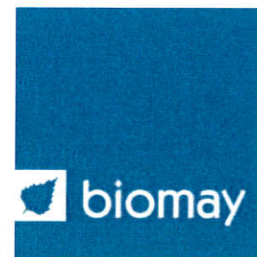
\* The mol.ext.coeff. was calculated from the DNA-derived protein sequence as described by Gill, S.C. and by Hippel, P.H. (1989), Analytical Biochemistry **182**, 319-326.

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**Mw** = 28464.0

**Mol. Ext. Coeff.:** 31,650; 1 mg/ml  $A_{280}=1.112^*$

**pI** = 5.90

**Lot#:** 01

**Amount:** 200 µg

**Quality:** Purity > 96%

Endotoxin content: 0.042 EU/µg

**Reacts with IgE** from *Cla h* MtDH reactive human serum

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