

# *Alt a 2* (*Alt a 6* according to effective allergen nomenclature)

(*enolase* from *Alternaria alternata*)

For research purpose only.

## PRODUCT DESCRIPTION:

**Access:** EMBL: U82437

**Mw** = 47,382 Dalton

**Mol. Ext. Coeff.:** 47,727; 1 mg/ml  $A_{278}=1.01^*$

**pI** = 5.3

**Lot#:** 01

**Amount:** 1 mg

**Quality:** Purity approx. 98%.

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### General information:

BIOMAY Alt a 2 (**Alt a 6 according to the effective allergen nomenclature**) is a lyophilized, recombinant protein with IgE-binding capacity. It was produced by heterologous expression in *E. coli*, purified by conventional biochemical methods.

### Reconstitution:

The material can be reconstituted with distilled water (or equivalent) or dilute buffers. Addition of 1-2 mM  $\beta$ -Mercaptoethanol is recommended. If reconstituted to a concentration of 1 mg/ml, the phosphate buffer concentration will be 2 mM (pH 7,4). The product is soluble to more than 95% at a concentration of 2 mg/ml.

### 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.

Alt a 2 (Alt a 6) Lot# 01 tested positive in an IgE-Immunoblot with a standardized pool of human Alt a 2 (Alt a 6)-reactive sera.

With respect to immunological properties, this product is similar to natural Alt a 2 (Alt a 6). However, it was **not** checked for 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.