

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

V.2 (<051029>)



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Amb a 1.3-His

(*Ambrosia artemisifolia*, ragweed allergen 1, Isoform 3)

For research purpose only.

PRODUCT DESCRIPTION:

Access: EMBL: M62961/Swissprot: P27761

MW = 43 363.8 Dalton (according to sequence of processed, tagged protein)

Mol. Ext. Coeff.: 57 908; 1 mg/ml $A_{278}=1.34^*$

pI: 5.65

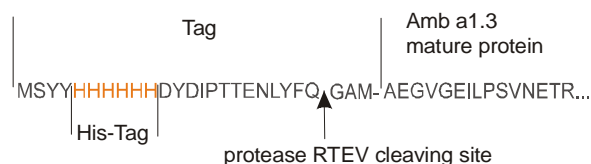
Lot#: 04

Amount: 1 mg

Quality: Purity > 90%.

Reacts with IgE from Amb a 1 reactive human serum

General information:



Amb a 1.3-His is a recombinant protein with IgE-binding capacity. It was produced by heterologous expression in *E. coli*, purified by conventional biochemical methods, and lyophilized from 5mM NH_4HCO_3 (volatile).

BIOMAY Amb a 1.3-His is different from the published sequence (access#) in 3 positions (His-tag not regarded).

Reconstitution:

To achieve satisfactory solubilization of at least 90% we strongly recommend to use one of the following procedures. Initial thorough physical suspension of the protein in the reconstitution buffer either by vortexing or by working the suspension through a fine-bore pipet tip is essential. Dissolve 1 mg lyophilized Amb a 1 in 1 mL 20 mM sodium phosphate pH 7.4 **containing 2 mM**

DTT or 4 mM 2-mercaptoethanol at 4 °C for 4 - 20 hours with gentle agitation. A quick reconstitution can be performed by using 10 mM 2-mercaptoethanol in the above buffer and incubation at room temperature for 1 h with gentle agitation.

Please note: The protein is insoluble in buffers exceeding salt concentrations (including buffer substances) of 20 mM (e. g. PBS).

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:

Purity has been determined on SDS-PAGE gels stained with Coomassie Brilliant Blue R-250.

Amb a 1.3-His Lot # 04 tested positive in an IgE-Immunoblot with a standardized pool of human Amb a 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.