

Amb a 1 (Amb a 1.0305*)

(*Ambrosia artemisifolia*, ragweed allergen 1)

For research purpose only.



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PRODUCT DESCRIPTION:

Access: EMBL FR669660, UniProt E1XUL5

Theoretical MW = 38,584 Dalton (according to sequence comprising aa 41- 397)

Mol.Ext.Coeff.: 51,950; 1mg/ml A_{280} = 1.346**

pI = 5.76

Lot#: 02

Amount: 200 µg

Quality: Purity ≥ 99 %

Endotoxin content: 0,0045 EU/µg

Reacts with IgE from Amb a 1 reactive human serum

General information:

BIOMAY Amb a 1 is a lyophilized, recombinant protein. It was produced by heterologous expression in *P. pastoris*, purified by conventional biochemical methods, and lyophilized from 5 mM sodium phosphate buffer, pH 7.4.

Reconstitution:

The material can be reconstituted with distilled water or diluted buffers. Do not use salt concentrations exceeding 20 mM to dissolve the lyophilized material. Salt may be added after dissolution.

If reconstituted to 1 mg/ml the product will be soluble to at least 97% and the sodium phosphate concentration will be 5 mM.

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 by SDS-PAGE and staining with Coomassie Brilliant Blue R-250.

Endotoxin content was determined by using a Limulus Amebocyte Lysate (LAL) assay.

Amb a 1 Lot# 02 tested positive in an Immunoblot with a Amb a 1-reactive human serum.

* **Please note**, that Amb a 1.0305 is referenced as Amb a 1.03 on the product vial label for technical reasons.

** 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.