

Aln g 1

(*Alnus glutinosa*, alder pollen allergen 1)

For research purpose only.



BIOMAY AG

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PRODUCT DESCRIPTION:

Access: EMBL: S50892/Swissprot: P38948

Mw = 17,208 Dalton (according to sequence from database without Methionine)

Mol. Ext. Coeff.: 7,450; 1 mg/ml $A_{280}=0.433^*$

pI = 5.47

Lot#: 01a

Amount: 250 µg

Quality: Purity 99%

Endotoxin content: 0,035 EU/µg

Reacts with IgE from Aln g 1 reactive human serum

General information:

BIOMAY Aln g 1 is a lyophilized (from phosphate buffer pH 7,4 containing sucrose), recombinant protein with IgE-binding capacity. It was produced by heterologous expression in *E. coli*, purified by conventional biochemical methods.

However, a low proportion of the protein is in dimeric form. This dimer reacts with monoclonal antibodies and human IgE directed against Aln g 1.

Reconstitution:

If reconstituted to 1 mg/mL with a suitable buffer (e.g. Tris/HCl pH 8.0, 2mM β-Mercaptoethanol) sucrose concentration will be 0,6 mg/ml and the phosphate concentration will be 1,25 mM. The product is soluble to >99%. Thorough physical suspension of the protein is

essential.

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.

Aln g 1 Lot# 01a tested positive in an IgE-Immunoblot with a standardized pool of human Aln g 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.

Aln g 1 (Aln g 1.0101)

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PRODUCT DESCRIPTION:

Access: EMBL: S50892/Swissprot: P38948

Mw = 17,208 Dalton (according to sequence from database without Methionine)

Mol. Ext. Coeff.: 7,450; 1 mg/ml $A_{276}=0.433^*$

pI = 5.5

Lot#: 01

Amount: 1 mg

Quality: Purity approx. 99%

Endotoxin content: 0.035 EU/ μ g

Reacts with IgE from Aln g 1 reactive human serum

General information:

BIOMAY Aln g 1 is a lyophilized (in NH_4HCO_3 with 0.6 mg sucrose/mg), recombinant protein with IgE-binding capacity.

It was produced by heterologous expression in *E. coli*, purified by conventional biochemical methods.

The NH_4HCO_3 buffer used is volatile under lyophilization conditions. The preparation does not contain any buffer substance.

However, approximately 8% of the protein is in dimeric form. This dimer reacts with monoclonal antibodies and human IgE directed against Aln g 1.

Reconstitution:

If reconstituted with a suitable buffer (e.g. Tris/HCl pH 8.0, 2mM β -Mercaptoethanol) sucrose concentration will be 1,2 mg/ml. The product is soluble to app. 98%. Thorough physical suspension of the protein is essential. Alternatively the product can be dissolved in 6M Urea, 1mM β -Mercaptoethanol. The urea

solution can be dialysed against a suitable buffer (20 mM Tris/HCl pH 8,0 1mM β -Mercaptoethanol) without precipitation of protein.

Storage:

The lyophilized product can be kept at room temperature for at least 3 weeks. However, we recommend the product to be stored at -20°C . Under these conditions the quality of the material will be maintained for several years. The stability at 4°C should at least be 6 months. Reconstituted protein can be stored at -20°C .

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.

Aln g 1 Lot# 01 tested positive in an IgE-Immunoblot with a standardized pool of human Aln g 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.