

# *Dau c 1.0103*

(*Daucus carota*, carrot allergen 1,  
Isoform Dau c 1.0103, formerly Isoform Dau c 1.2)

For research purpose only.



## BIOMAY AG

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## PRODUCT DESCRIPTION:

**Access:** EMBL: Z81361/Swissprot: O04298

**Mw:** 17,339 Dalton

**Mol. Ext. Coeff.:** 4,470; 1 mg/ml  $A_{280}=0.258^*$

**pI** = 5.48

**Lot#:** 01a

**Amount:** 250  $\mu$ g

**Quality:** Purity > 98%.

Endotoxin content: 0,037EU/ $\mu$ g

**Reacts with IgE** from Dau c 1.2 reactive human serum.

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### General information:

BIOMAY Dau c 1.2 is a lyophilized, recombinant protein with IgE-binding capacity. It was produced by heterologous expression in *E. coli*, purified by conventional biochemical methods.

The product was lyophilized from phosphate buffer, pH 7,4 containing sucrose.

### Reconstitution:

The material can be reconstituted with water or diluted buffers (2mM  $\beta$ -Mercaptoethanol). Thorough physical suspension of the protein is essential. If reconstituted to 1 mg/ml, the product is soluble to approx. 99%, the sucrose concentration will be approx. 15 mM. and the phosphate concentration will be 1 mM.

### 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. Dau c 1.2 Lot# 01a tested positive in an IgE-Immunoblot with a standardized pool of human Dau c 1.2-reactive sera.

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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.