

# *Phl p 12 (Phl p 12.0102)*

(*Phleum pratense*, timothy grass pollen allergen 12, profilin-2)

For research purpose only.



## BIOMAY AG

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## PRODUCT DESCRIPTION:

**Access:** Uniprot: O24650

**Mw** = 14,019 Dalton (according to sequence from database, without initial Methionine )

**Mol. Ext. Coeff.:** 16960, 1 mg/ml  $A_{280}=1.210^*$

**Theoretical pI** : 4.92

**Lot#:** 01

**Amount:** 1 mg

**Quality:** Purity  $\geq$  90%

Endotoxin content: 0.002 EU/ $\mu$ g

**Reacts with IgE** from Phl p 12 reactive human serum

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### General information:

BIOMAY Phl p 12 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 5 mM sodium phosphate buffer pH 7.4.

### Reconstitution:

To achieve sufficient solubilization we recommend to reconstitute to a concentration of 1 mg/ml with water containing 1 mM  $\beta$ -mercaptoethanol. If reconstituted to 1 mg/ml the sodium phosphate concentration will be 3 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  $-20^{\circ}\text{C}$  in small aliquots (e. g. 100  $\mu$ L). 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.

Phl p 12 Lot# 01 tested positive in an IgE-Immunoblot with a standardized pool of human Phl p 12-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.