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# Phl p 1

(*Phleum pratense*, timothy grass pollen allergen 1)

The leader sequence of the protein is replaced by a methionine.

For research purpose only.

## PRODUCT DESCRIPTION:

**Access:** EMBL: X78813/Swissprot: P43213

**MW** = 26,157 (signal peptide removed and substituted by a Methionine)

**Mol. Ext. Coeff.:** 46,581; 1 mg/ml  $A_{278} = 1.78^*$

**Theoretical pI** = 6.2

**Lot#:** 06

**Amount:** 1 mg

**Quality:** Purity  $\geq$  93%

**Reacts with IgE** from Phl p1 reactive human serum

### General information:

BIOMAY Phl p 1 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 phosphate buffer (pH 7.5)

### Reconstitution:

To achieve satisfactory solubilization of at least 95% we strongly recommend to use the following procedure: Suspend the protein to a concentration of 1 mg/ml with distilled water (or equivalent) containing 1-2 mM  $\beta$ -mercapto-ethanol and support physical suspension by either vortexing or working the suspension through a fine-bore pipet tip. Then incubate the suspension for 2 - 20 h at 4°C with gentle agitation to allow a complete reconstitution of the protein. If reconstituted to 1 mg/ml the concentration of  $PO_4$  will be 2 mM. **Please,**

**note that the solubility of the protein is strongly reduced in solvents with salt concentration above 20 mM.** Salt may be added after reconstitution.

### 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 on SDS-PAGE gels stained with Coomassie Brilliant Blue R-250.

Phl p 1 Lot# 06 tested positive in an IgE-Immunoblot with a standardized pool of human Phl p 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.