

# Phl p 7

(*Phleum pratense*, timothy grass pollen allergen 7)

For research purpose only.

## PRODUCT DESCRIPTION:

**Access:** Swissprot: O82040

**Mw** = 8,794 Dalton

**Mol. Ext. Coeff.:** 127; 1 mg/ml  $A_{278} = 0.014^*$

**pI** = 4.19

**Lot#:** 01

**Amount:** 1 mg

**Quality:** Purity: approx. 95%

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### General information:

BIOMAY Phl p7 is a recombinant protein from *E. coli* purified by conventional biochemical methods. Lyophilized in buffer containing 5 mM NaHCO<sub>3</sub>/0.5% sucrose/1 mM β-mercaptoethanol. Contains 1 cysteine; if not reduced, the protein aggregates.

Data deduced from the DNA sequence:

Due to the very low value of molecular extinction coefficient, the protein concentration was measured by the method of Bradford.

### Reconstitution:

Thorough physical suspension of the protein as well as sufficient time to rehydrate are essential. Afterwards add appropriate concentrated buffer (e.g. 5x concentrated PBS). To reduce SH-group incubate in the presence of 1mM DTT or DTE for 1 h at 37°C, pH should be kept above 8.0.

**Note:** product contains ~0.25 mg sucrose per mg 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 be at least 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.

Phl p 7 Lot# 01 tested positive in an IgE-Immunoblot with a standardized pool of human Phl p 7-reactive sera.

By SDS-PAGE and staining with Coomassie-blue R-250. **Note:** in SDS-PAGE according to Laemmli the protein runs together with bromophenol blue dye.

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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.