

Phl p 5.0101

(*Phleum pratense*, timothy grass pollen allergen 5)

For research purpose only.



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PRODUCT DESCRIPTION:

Access: EMBL: X74735/Swissprot: Q40960

Mw = 28,585 (according to sequence from database without Methionine)

Mol. Ext. Coeff.: 17,880; 1 mg/ml $A_{280} = 0.625^*$

pI = 6.9

Lot#: 05

Amount: 1 mg / 250 μ g

Quality: Purity > 99%

Endotoxin content: 0.003EU/ μ g

Reacts with IgE from Phl p 5-reactive human serum.

General information:

BIOMAY Phl p 5 is a lyophilized, recombinant protein with IgE-binding capacity. It was produced by heterologous expression in *E. coli*, purified by conventional biochemical methods and lyophilized from sodium phosphate buffer (pH 7.4)

Reconstitution:

The material should be reconstituted with distilled water (or equivalent) or dilute buffers. Do not use salt concentrations exceeding 20 mM to dissolve the lyophilized material. Salt may be added after dissolution. Gentle agitation during dissolution is essential, afterwards incubate for 30 min to allow a complete reconstitution of the protein. If reconstituted with distilled water to a concentration of 1 mg/ml, the phosphate concentration will be 2 mM. At this concentration, the product is soluble to more than 99%.

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. Phl p 5 Lot# 05 tested positive in an IgE-Immunoblot with human Phl p 5-reactive serum.

* 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.