

Recombinant Phleum pratense Phl p 5a Allergen, His tagged

Cat. No. Phl p 5a-045P **Lot. No.** (See product label)

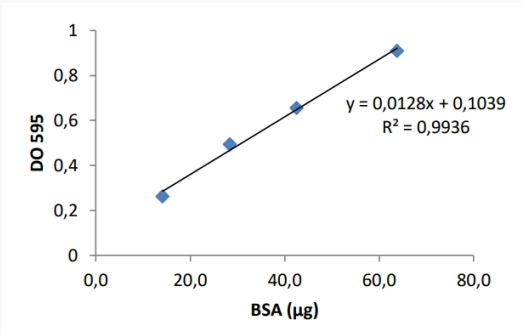
SPECIFICATION

Product Overview	The Phleum pratense major allergen Phl p 5 has been prepared as the recombinant mature allergen fused to a his-tag in its N-terminus.
Species	Phleum pratense
Source	E.coli
Description	Phl p 5a is a major allergen of grass pollen (Phleum pratense). It has been prepared as the recombinant mature allergen fused to a his-tag.
Tag	N-His
Molecular Mass	Determined by SDS-PAGE, the protein band is between molecular markers of 35 and 45 kDa, while relative molecular mass calculated from amino acid sequence is 35,224.5 Da.
Purity	> 95% by observation on SDS-PAGE electrophoresis
Applications	WB, DB, IE, DE, CLIA, LF
Storage	Upon arrival, it should be aliquoted to avoid repeated freezing and thawing cycles and stored at -20 to -80 centigrade. In order to defrost the protein, maintain the aliquot at 25 centigrade without shaking to avoid aggregation.
Storage Buffer	20 mM phosphate buffer pH 7 and 0.15 M NaCl

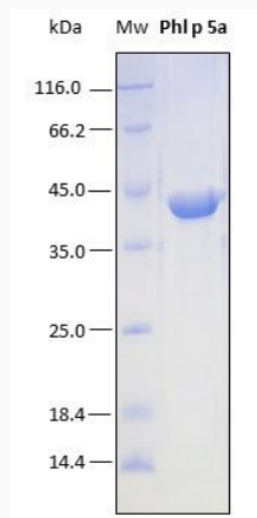
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Concentration	1.03 mg/mL										
Shipping	Protein is shipped with dry ice.										
Reference	1. Julia Hecker et al. Generation and epitope analysis of human monoclonal antibody isotypes with specificity for the timothy grass major allergen Phl p 5a. 2011, Molecular Immunology 48:1236-1244. 2. Gill SC, von Hippel PH. Calculation of protein extinction coefficients from amino acid sequence data. Anal Biochem. 1989 Nov 1;182(2):319-26.										
PROTEIN CONCENTRATION DETERMINED ESPECTROPHOTOMET	 <table border="1"> <caption>Data points from the BSA standard curve</caption> <thead> <tr> <th>BSA (µg)</th> <th>OD 595</th> </tr> </thead> <tbody> <tr> <td>10.0</td> <td>0.25</td> </tr> <tr> <td>30.0</td> <td>0.50</td> </tr> <tr> <td>45.0</td> <td>0.65</td> </tr> <tr> <td>65.0</td> <td>0.90</td> </tr> </tbody> </table> This protein does not contain any Trp residues. Experience shows that this could result in more than 10% error in the computed extinction coefficient. Therefore, we have measured the protein concentration by using the colorimetric assay based on the interaction between Coomassie brilliant blue and the arginine and aromatic residues and its maximum absorption shifts from 470 nm to 595 nm. The standard curve was performed with the protein BSA. 40 µL of the protein were analyzed.	BSA (µg)	OD 595	10.0	0.25	30.0	0.50	45.0	0.65	65.0	0.90
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Purity



SDS-PAGE analysis (15%) of 2 μ L of the recombinant allergen Phl p 5a. Purity is > 95% as determined by gel electrophoresis.

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