

Recombinant Phleum pratense Phl p 5a Allergen, His tagged, Biotinylated

Cat. No. Phl p 5a-044P **Lot. No.** (See product label)

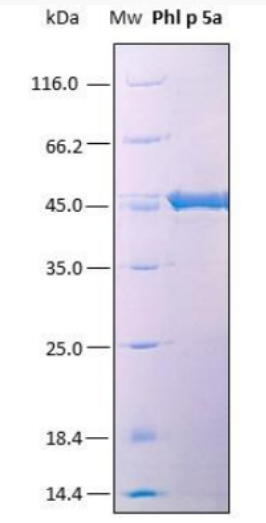
SPECIFICATION

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 and monobiotinylated in vivo.
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
Conjugation/Label	Biotin
Molecular Mass	Determined by SDS-PAGE, the protein band is at the molecular marker of 45 kDa and the dimer is between the molecular markers of 66 and 116 kDa, while relative molecular mass calculated from amino acid sequence is 40,257.84 Da.
Purity	> 95% by observation on SDS-PAGE electrophoresis
Applications	WB, DB, CE, NP, PO
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

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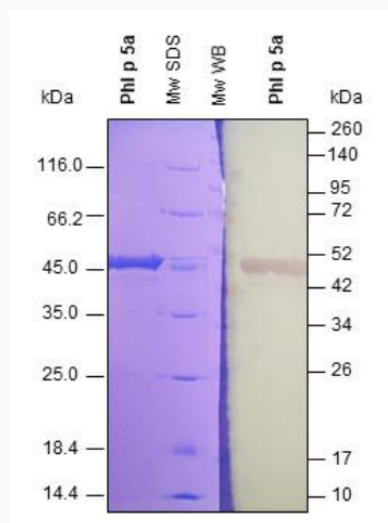
 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

	25 centigrade without shaking to avoid aggregation.
Storage Buffer	20 mM phosphate buffer pH 6, 0.15 M NaCl and 0.1% polyoxyethylene (10) tridecyl ether
Concentration	1.04 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.
Conjugation	Biotin
Purity	 SDS-PAGE analysis (15%) of 3 µL of the recombinant allergen Phl p 5a. Purity is >

95% as determined by gel electrophoresis.

WB



Western blot analysis in order to detect streptavidin /biotin reaction. The incubation was performed with HRP conjugated streptavidin (1:2500).