

Pollen allergen Phl p 5 Protein, Phleum pratense

Cat. No.:	HY-P73702
Synonyms:	Pollen allergen Phl p 5; Phl p 5a; Phl p V
Species:	Others
Source:	E. coli
Accession:	Q40960
Gene ID:	/
Molecular Weight:	Approximately 28.7 kDa

PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μ m filtered solution of PBS, PH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/ μ g, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μ g/mL in ddH ₂ O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	Pollen allergen Phl p 5 is a protein derived from grass pollen, specifically Phleum pratense (timothy grass). It is a potent allergen that induces allergic reactions in humans, particularly contributing to grass pollen allergy. Phl p 5 is known to bind to immunoglobulin E (IgE) antibodies present in individuals who are allergic to Phleum pratense. The interaction between Phl p 5 and IgE initiates an allergic response, leading to symptoms such as rhinitis, conjunctivitis, and asthma in susceptible individuals. Understanding the molecular characteristics and immunological reactivity of Phl p 5 is crucial for developing diagnostic tools and therapeutic strategies to manage grass pollen allergies.
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Caution: Product has not been fully validated for medical applications. For research use only.

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