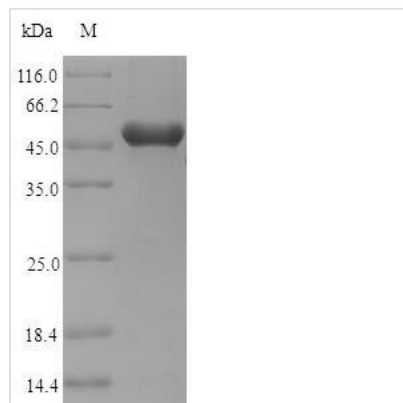




# Recombinant Phleum pratense Pollen allergen Phl p 5a, partial

<b>Product Code</b>	CSB-EP669216EUQ
<b>Abbreviation</b>	Recombinant Phleum pratense Pollen allergen Phl p 5a protein, partial
<b>Storage</b>	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
<b>Uniprot No.</b>	Q40962
<b>Product Type</b>	Recombinant Proteins
<b>Immunogen Species</b>	Phleum pratense (Common timothy)
<b>Purity</b>	Greater than 90% as determined by SDS-PAGE.
<b>Sequence</b>	ADLGYPATPAAPAAGYTPATPAAPAGADAAGKATTEEQKLIEKINAGFKAALA GAGVQPADKYRTFVATFGPASNKAF AEGLSGEPKGAAESSSKAALTSKLDAA YKLAYKTAEGATPEAKYDAYVATLSEALRIIAGTLEVHAVKPAAEEVKVIPAGEL QVIEKVDAAFKVAATAANAAPANDKFTVFEEAFNDEIKASTGGAYESYKFIPAL EAAVKQAYAATVATAPEVKYTVFETALKKAITAMSEAQKAAKPAAAATATATAA VGAATGAATAATGGYKV
<b>Research Area</b>	Allergen
<b>Source</b>	E.coli
<b>Target Names</b>	N/A
<b>Protein Names</b>	Recommended name: Pollen allergen Phl p 5a Alternative name(s): Allergen Phl p Va Allergen= Phl p 5a
<b>Expression Region</b>	1-286aa
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	N-terminal 6xHis-SUMO-tagged
<b>Mol. Weight</b>	44.5kDa
<b>Protein Length</b>	partial
<b>Image</b>	



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

## Description

The cDNA encoding residues Ala1 to Val286 of the Phleum pratense Pollen allergen Phl p 5a full-length protein was fused with a 6xHis-SUMO-tag at the N-terminus and then expressed in E.coli. The purity of this forming recombinant protein is greater than 90% measured by SDS-PAGE. It migrated to the molecular mass band of approximately 45-56 kDa on the gel under reducing conditions. In addition to generating specific antibodies, this recombinant allergen Phl p 5a protein may find uses in the studies of allergen or allergy.

Phl p 5a is an isoform of Phl p 5, which is a group 5 allergen from timothy grass and possesses high reactivity. Phl p 5 is highly allergenic and contains two active domains that lead to the production of high IgE levels. When Phl p 5 is recognized by IgE antibodies of almost all grass pollen allergic patients, strong IgE antibody cross-reactivity and T-cell responses responsible for allergy are induced. Sensitized patients develop heavy clinical reactions such as asthma. N. Najafi etc. demonstrated that Bet v 1-Phl p 5 recombinant fusion proteins form IgE-reactive aggregates with reduced allergenic activity.

## Shelf Life

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.

Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.