

# Recombinant Human IL-5RA/CD125 Protein

Catalog No.: RP01783 **Recombinant**

## Sequence Information

Species	Gene ID	Swiss Prot
Human	3568	Q01344-1

### Tags

C-His

### Synonyms

IL5R; CD125; CDw125; HSIL5R3; IL5RA

## Product Information

Source	Purification
HEK293 cells	> 97% by SDS-PAGE.

Calculated MW	Observed MW
38.79 kDa	50-60 kDa

### Endotoxin

&lt; 0.01EU/μg

### Formulation

Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.

### Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

## Contact

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## Background

Interleukin 5 receptor, alpha (IL5RA) also known as CD125 (Cluster of Differentiation 125) is a subunit of the Interleukin-5 receptor. IL5RA (CD125) is an interleukin 5 specific subunit of a heterodimeric cytokine receptor. The receptor is comprised of a ligand-specific alpha subunit and a signal transducing beta subunit shared by the receptors for interleukin 3 (IL3), colony-stimulating factor 2 (CSF2/GM-CSF), and interleukin 5 (IL5). The binding of this protein to IL5 depends on the beta subunit. The beta subunit is activated by the ligand binding and is required for the biological activities of IL5. This protein has been found to interact with syndecan binding protein (syntenin), which is required for IL5 mediated activation of the transcription factor SOX4. Six alternatively spliced transcript variants encoding three distinct isoforms have been reported. IL5RA (CD125) is a T-cell-derived cytokine that is particularly important in the development of asthma for the terminal differentiation, activation, and survival of committed eosinophil precursors.

## Basic Information

### Description

Recombinant Human IL-5RA/CD125 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Met1-Glu335) of human IL-5RA/CD125 (Accession #NP\_000555.2) fused with and a 6×His tag at the C-terminus.

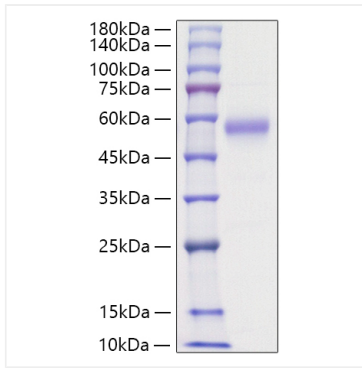
### Bio-Activity

#### Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt. After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week. Avoid repeated freeze/thaw cycles.

## Validation Data

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Recombinant Human IL-5RA/CD125 Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 45-50 kDa.