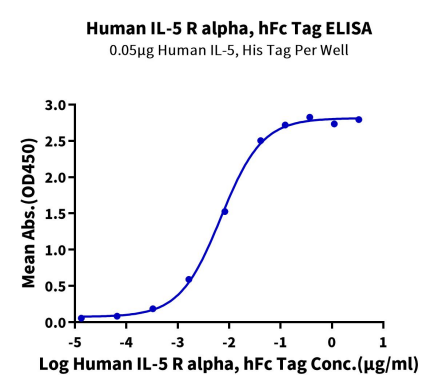
Bioactive HuPro®

IL5RA (Human) Recombinant Protein

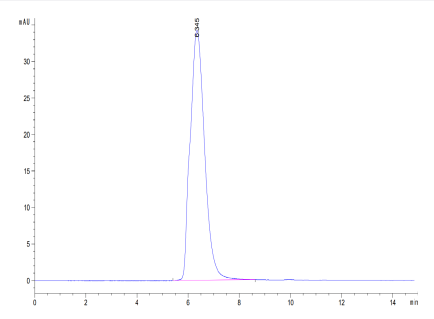
Catalog # P9898 Size 100 ug

Applications



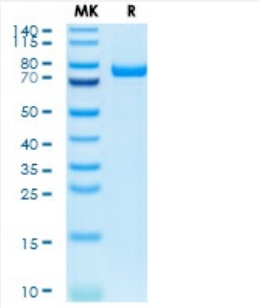
Enzyme-linked Immunoabsorbent Assay

Immobilized Human IL-5, His Tag at 0.5 ug/mL (100 uL/Well) on the plate. Dose response curve for Human IL-5 R alpha, hFc Tag with the EC50 of 6.9 ng/mL determined by ELISA.



SEC-HPLC

The purity of Human IL-5R alpha is greater than 95% as determined by SEC-HPLC.



Tris-Bis PAGE

Human IL-5R alpha on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

Specification

Product Description	Human IL5RA (Q01344-1, Asp21-Glu335) partial recombinant protein with hFc tag at C-Terminus ex pressed in HEK293 cells.
Sequence	Asp21-Glu335
Host	Human
Theoretical MW (kDa)	62.6
Form	Lyophilized
Preparation Method	Mammalian cell (HEK293) expression system
Purity	> 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC
Endotoxin Level	< 1 EU per 1 ug of protein (determined by LAL method)
Activity	The EC_{50} was 6.9 ng/mL, messured by ELISA at 0.5 ug/mL.
Quality Control Testing	SEC-HPLC and Tris-Bis PAGE SEC-HPLC The purity of Human IL-5R alpha is greater than 95% as determined by SEC-HPLC. Tris-Bis PAGE Human IL-5R alpha on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.
Recommend Usage	Biological Activity ELISA SDS-PAGE The optimal working dilution should be determined by the end user.
Storage Buffer	Lyophilized from sterile distilled Water is > 100 ug/mL
Storage Instruction	Store at 2°C to 8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Result of bioactivity analysis

Applications

- Enzyme-linked Immunoabsorbent Assay

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- Functional Study

- SDS-PAGE

Gene Info — IL5RA

Entrez GeneID	3568
Protein Accession#	Q01344-1
Gene Name	IL5RA
Gene Alias	CD125, CDw125, HSIL5R3, IL5R, MGC26560
Gene Description	interleukin 5 receptor, alpha
Omim ID	147851
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene 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. [provided by RefSeq
Other Designations	CD125 antigen|OTTHUMP00000115257|OTTHUMP00000115373|interleukin 5 receptor type 3|interleukin-5 receptor alpha chain|interleukin-5 receptor alpha subunit

Pathway

- Cytokine-cytokine receptor interaction
- Hematopoietic cell lineage
- Jak-STAT signaling pathway

Disease

- Asthma
- Atherosclerosis
- Brain Ischemia
- Bronchial Hyperreactivity

- Bronchiolitis
- Carcinoma
- Cardiovascular Diseases
- Chlamydia Infections
- Chorioamnionitis
- Chronic Disease
- Constriction
- Coronary Artery Disease
- Coronary Disease
- Dermatitis
- Diabetes Mellitus
- Edema
- Eosinophilia
- Esophagitis
- Fetal Membranes
- Genetic Predisposition to Disease
- Glomerulonephritis
- Hypersensitivity
- Hypertension
- Infant
- Inflammation
- Kidney Failure
- Lung Neoplasms
- Migraine Disorders
- Multiple Sclerosis
- Obesity
- Obstetric Labor

- Osteoporosis
- Pre-Eclampsia
- Premature Birth
- Radiation Injuries
- Radiation Pneumonitis
- Recurrence
- Respiratory Syncytial Virus Infections
- Rhinitis
- Stroke
- Trachoma