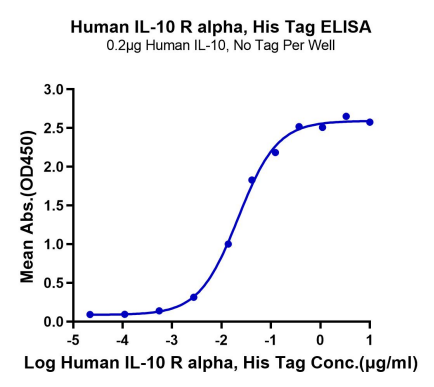
Bioactive HuPro®

IL10RA (Human) Recombinant Protein

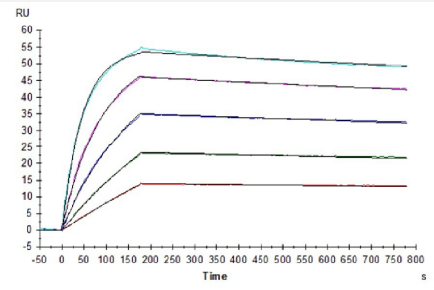
Catalog # P9843 Size 100 ug

Applications



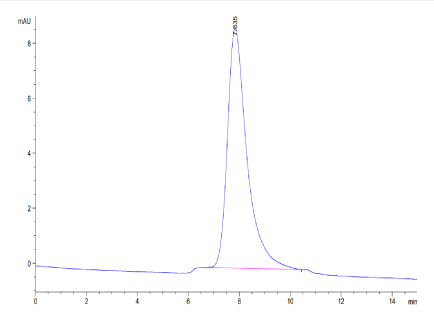
Enzyme-linked Immunoabsorbent Assay

Immobilized Human IL-10, No Tag at 2 ug/mL (100 uL/well) on the plate. Dose response curve for Human IL-10 R alpha, His Tag with the EC50 of 21.8 ng/mL determined by ELISA (QC Test).



Surface Plasmon Resonance

Human IL-10 R alpha, His Tag immobilized on CM5 Chip can bind Human IL-10, His Tag with an affinity constant of 0.13 nM as determined in SPR assay (Biacore T200).



SEC-HPLC

The purity of Human IL-10 R alpha is greater than 95% as determined by SEC-HPLC.

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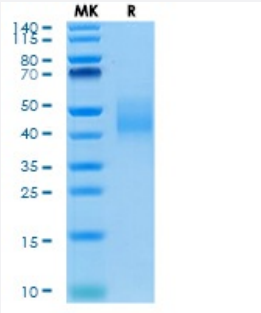

Tris-Bis PAGE

Human IL-10 R alpha on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

Specification

Product Description	Human IL10RA (Q13651, His22-Asn235) partial recombinant protein with His-Avi tag at C-Terminus expressed in HEK293 cells.
Sequence	His22-Asn235
Host	Human
Theoretical MW (kDa)	27
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 21.8 ng/mL, messured by ELISA at 2 ug/mL. The affinity constant of 0.13 nM as deter mined in SPR assay (Biacore T200).
Quality Control Testing	SEC-HPLC and Tris-Bis PAGE SEC-HPLC The purity of Human IL-10 R alpha is greater than 95% as determined by SEC-HPLC. Tris-Bis PAGE Human IL-10 R alpha on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.
Recommend Usage	Biological Activity ELISA SDS-PAGE SPR 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

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Applications

- Functional Study
- Enzyme-linked Immunoabsorbent Assay

  Immobilized Human IL-10, No Tag at 2 ug/mL (100 uL/well) on the plate. Dose response curve for Human IL-10 R alpha, His Tag with the EC50 of 21.8 ng/mL determined by ELISA (QC Test).
- SDS-PAGE
- Surface Plasmon Resonance

  Human IL-10 R alpha, His Tag immobilized on CM5 Chip can bind Human IL-10, His Tag with an affinity constant of 0.13 nM as determined in SPR assay (Biacore T200).

Gene Info — IL10RA

Entrez GeneID	3587
Protein Accession#	Q13651
Gene Name	IL10RA
Gene Alias	CDW210A, HIL-10R, IL-10R1, IL10R
Gene Description	interleukin 10 receptor, alpha
Omim ID	146933
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene is a receptor for interleukin 10. This protein is structurally related to interferon receptors. It has been shown to mediate the immunosuppressive signal of interleukin 10, and thus inhibits the synthesis of proinflammatory cytokines. This receptor is reported to promote survival of progenitor myeloid cells through the insulin receptor substrate-2/PI 3-kinase/AKT pathway. Activation of this receptor leads to tyrosine phosphorylation of JAK1 and TYK2 kinases. Two transcript variants, one protein-coding and the other not protein-coding, have been found for this gene. [provided by RefSeq
Other Designations	-

Pathway

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- Cytokine-cytokine receptor interaction
- Jak-STAT signaling pathway

Disease

- Acquired Immunodeficiency Syndrome
- Acute Disease
- Adenocarcinoma
- Adenovirus Infections
- AIDS-Related Opportunistic Infections
- Arthritis
- Asthma
- Bronchiolitis
- Carcinoma
- Cardiovascular Diseases
- Carotid Stenosis
- Celiac Disease
- Central Nervous System Neoplasms
- Chorioamnionitis
- Chronic Disease
- Colitis
- Connective Tissue Diseases
- Cytomegalovirus Retinitis
- Diabetes Mellitus
- Disease Progression
- Ductus Arteriosus
- Edema

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- Enterovirus Infections
- Esophageal Neoplasms
- Esophagitis
- Fetal Diseases
- Fetal Membranes
- Genetic Predisposition to Disease
- Graft vs Host Disease
- Helicobacter Infections
- Hematologic Diseases
- Hematologic Neoplasms
- Hepatitis B
- Hepatitis C
- HIV Infections
- Hodgkin Disease
- Hyperparathyroidism
- Hypersensitivity
- Infant
- Infection
- Inflammation
- Kidney Failure
- Liver Cirrhosis
- Lung Diseases
- Lung Neoplasms
- Lupus Erythematosus
- Lymphoma
- Lymphoproliferative Disorders

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- Multiple Myeloma
- Musculoskeletal Diseases
- Obesity
- Obstetric Labor
- Occupational Diseases
- Pain
- Papillomavirus Infections
- Pre-Eclampsia
- Pregnancy Complications
- Premature Birth
- Pulmonary Disease
- Radiation Injuries
- Radiation Pneumonitis
- Respiratory Syncytial Virus Infections
- Retinal Diseases
- Schizophrenia
- Sepsis
- Skin Diseases
- Tourette Syndrome
- Urinary Bladder Neoplasms
- Uterine Cervical Neoplasms
- Vaginosis
- Viremia
- Waldenstrom Macroglobulinemia
- Werner syndrome

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