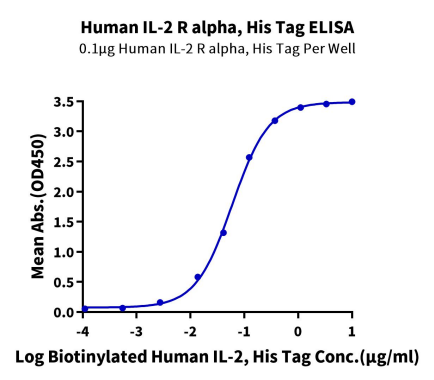
Bioactive CellTx™ HuPro®

IL2RA (Human) Recombinant Protein

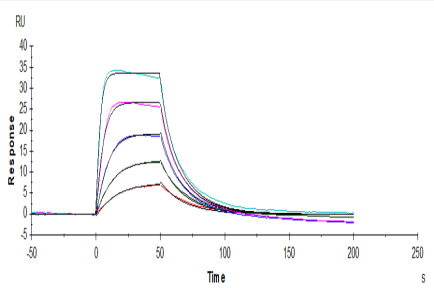
Catalog # P10132 Size 100 ug

Applications



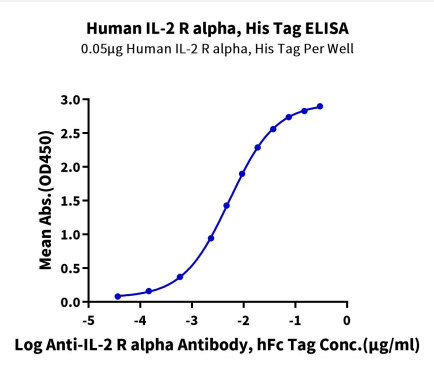
Enzyme-linked Immunoabsorbent Assay

Immobilized Human IL-2 R alpha, His Tag at 1 ug/ml (100 ul/Well) on the plate. Dose response curve for Biotinylated Human IL-2, His Tag with the EC_{50} of 59.6 ng/ml determined by ELISA.



Surface Plasmon Resonance

Human IL-2 R alpha, His Tag captured on CM5 Chip via anti-His antibody can bind Human IL-2, No Tag with an affinity constant of 15.2 nM as determined in SPR assay (Biacore T200).



ELISA

Immobilized Human IL-2 R alpha, His Tag at 0.5 ug/ml (100 ul/Well) on the plate. Dose response curve for Anti-IL-2 R alpha Antibody, hFc Tag with the EC_{50} of 5.3 ng/ml determined by ELISA (QC Test).

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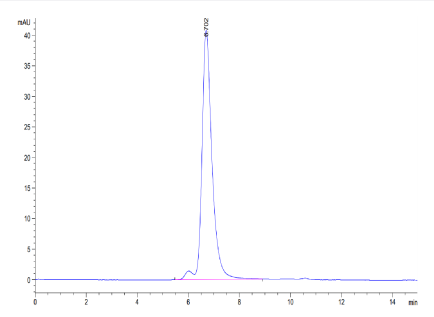
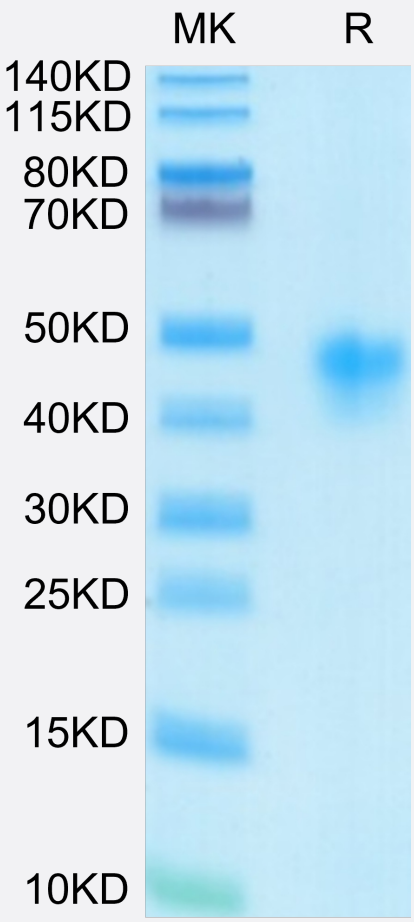


SEC-HPLC

The purity of Human IL-2 R alpha is greater than 95% as determined by SEC-HPLC.



Tris-Bis PAGE

Human IL-2 R alpha on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

Specification

Product Description	Human IL2RA (P01589, Glu22-Cys213) partial recombinant protein with His-Avi tag at C-terminus expressed in HEK293 cells.
Sequence	Glu22-Cys213
Host	Human
Theoretical MW (kDa)	24.6
Form	Lyophilized
Preparation Method	Mammalian cell (HEK293) expression system

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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)
Quality Control Testing	ELISA and SEC-HPLC ELISA Immobilized Human IL-2 R alpha, His Tag at 0.5 ug/ml (100 ul/Well) on the plate. Dose response curve for Anti-IL-2 R alpha Antibody, hFc Tag with the EC_{50} of 5.3 ng/ml determined by ELISA (QC Test). SEC-HPLC The purity of Human IL-2 R alpha is greater than 95% as determined by SEC-HPLC. Tris-Bis PAGE Human IL-2 R alpha on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.
Recommend Usage	Biological Activity ELISA SEC-HPLC SPR Tris-Bis PAGE The optimal working dilution should be determined by the end user.
Storage Buffer	Lyophilized from filtered solution in PBS, pH 7.4 (5% trehalose).
Storage Instruction	After reconstitution with deionized water to a final concentration more than 100 ug/ml, store at 4°C for 1 week. For long term storage, store at -80°C for 1 year. Aliquot to avoid repeated freezing and thawing.

Applications

- Functional Study
- Enzyme-linked Immunoabsorbent Assay

  Immobilized Human IL-2 R alpha, His Tag at 1 ug/ml (100 ul/Well) on the plate. Dose response curve for Biotinylated Human IL-2, His Tag with the EC_{50} of 59.6 ng/ml determined by ELISA.
- Surface Plasmon Resonance

  Human IL-2 R alpha, His Tag captured on CM5 Chip via anti-His antibody can bind Human IL-2, No Tag with an affinity constant of 15.2 nM as determined in SPR assay (Biacore T200).

Gene Info — IL2RA

Entrez GeneID	3559
Protein Accession#	P01589
Gene Name	IL2RA

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Gene Alias	CD25, IDDM10, IL2R, TCGFR
Gene Description	interleukin 2 receptor, alpha
Omim ID	147730 601942
Gene Ontology	Hyperlink
Gene Summary	The interleukin 2 (IL2) receptor alpha (IL2RA) and beta (IL2RB) chains, together with the common gamma chain (IL2RG), constitute the high-affinity IL2 receptor. Homodimeric alpha chains (IL2RA) result in low-affinity receptor, while homodimeric beta (IL2RB) chains produce a medium-affinity r eceptor. Normally an integral-membrane protein, soluble IL2RA has been isolated and determine d to result from extracellular proteolyisis. Alternately-spliced IL2RA mRNAs have been isolated, b ut the significance of each is presently unknown. [provided by RefSeq
Other Designations	Interleukin-2 receptor|OTTHUMP00000019030|OTTHUMP00000044870|interleukin 2 receptor, al pha chain

Pathway

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

Disease

- Acquired Immunodeficiency Syndrome
- Addison Disease
- Alopecia Areata
- Alzheimer Disease
- Arthritis
- Asthma
- Atrial Fibrillation
- Autoimmune Diseases
- Bronchiolitis

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- Carcinoma
- Cardiovascular Diseases
- Celiac Disease
- Chorioamnionitis
- Colitis
- Connective Tissue Diseases
- Crohn Disease
- Diabetes Mellitus
- Disease Progression
- Edema
- Fetal Diseases
- Fetal Membranes
- Genetic Predisposition to Disease
- Graves Disease
- Hyperparathyroidism
- Hypersensitivity
- Infant
- Infection
- Inflammation
- Lupus Erythematosus
- Measles
- Melanoma
- Multiple Sclerosis
- Mumps
- Musculoskeletal Diseases
- Obstetric Labor

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- Prediabetic State
- Pre-Eclampsia
- Pregnancy Complications
- Premature Birth
- Prostatic Neoplasms
- Respiratory Syncytial Virus Infections
- Rubella
- Skin Diseases
- Thyroid Diseases
- Vasculitis
- Vitiligo

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