

Bioactive

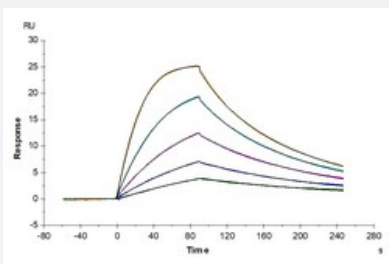
HuPro®

IL2RB (Human) Recombinant Protein

Catalog # P9742

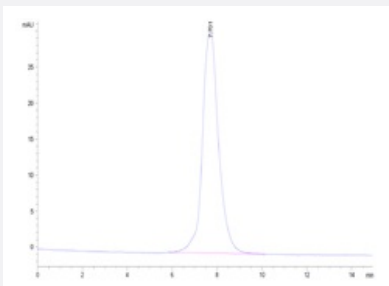
Size 100 ug

Applications



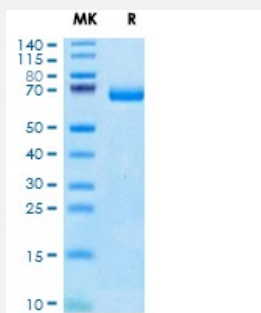
Surface Plasmon Resonance

Human IL-2 R beta, hFc Tag captured on CM5 Chip via Protein A can bind Human IL-15, No Tag with an affinity constant of 2.88 nM as determined in SPR assay (Biacore T200).



SEC-HPLC

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



Tris-Bis PAGE

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

Specification

Product Description

Human IL2RB (NP_000869, 27 a.a. - 239 a.a.) partial recombinant protein with hFc tag at C-terminus expressed in HEK293 cells.

Sequence	AVNGTSQFTCFYNSRANISCVWSQDGALQDTSCQVHAWPDRRRWNTCELLPVSQASWACNLI LGAPDSQKLTTVDVMTLRVLCREGVRWRVMAIQDFKPFENLRMAPISLQVVHVETHRCNISWEIS QASHYFERHLEFEARTLSPGHTWEEAPLLTLKQKQEWICLETLPDQTQYEFQVRVKPLQGEFTTW SPWSQPLAFRTKPAALGKD
Host	Human
Theoretical MW (kDa)	51.35
Form	Lyophilized
Preparation Method	Mammalian cell (Expi293, high-yield transient 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 affinity constant of 2.88 nM as determined in SPR assay (Biacore T200).
Quality Control Testing	SEC-HPLC and Tris-Bis PAGE SEC-HPLC The purity of Human IL-2 R beta is greater than 95% as determined by SEC-HPLC. Tris-Bis PAGE Human IL-2 R beta on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.
Recommend Usage	Biological Activity 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

- Functional Study
- SDS-PAGE
- Surface Plasmon Resonance

Human IL-2 R beta, hFc Tag captured on CM5 Chip via Protein A can bind Human IL-15, No Tag with an affinity constant of 2.88 nM as determined in SPR assay (Biacore T200).

Gene Info — IL2RB

Entrez GeneID	3560
Protein Accession#	NP_000869
Gene Name	IL2RB
Gene Alias	CD122, P70-75
Gene Description	interleukin 2 receptor, beta
Omim ID	146710
Gene Ontology	Hyperlink
Gene Summary	The interleukin 2 receptor, which is involved in T cell-mediated immune responses, is present in 3 forms with respect to ability to bind interleukin 2. The low affinity form is a monomer of the alpha s ubunit and is not involved in signal transduction. The intermediate affinity form consists of an alpha /beta subunit heterodimer, while the high affinity form consists of an alpha/beta/gamma subunit heterotrimer. Both the intermediate and high affinity forms of the receptor are involved in receptor-mediated endocytosis and transduction of mitogenic signals from interleukin 2. The protein encoded by this gene represents the beta subunit and is a type I membrane protein. [provided by RefSeq
Other Designations	CD122 antigen OTTHUMP00000028799 high affinity IL-2 receptor beta subunit interleukin 2 receptor beta

Pathway

- [Cytokine-cytokine receptor interaction](#)
- [Endocytosis](#)
- [Jak-STAT signaling pathway](#)

Disease

- [Arthritis](#)
- [Asthma](#)
- [Bipolar Disorder](#)
- [Bronchial Hyperreactivity](#)

- [Bronchiolitis](#)
- [Carcinoma](#)
- [Cardiovascular Diseases](#)
- [Celiac Disease](#)
- [Chagas Disease](#)
- [Colitis](#)
- [Connective Tissue Diseases](#)
- [Crohn Disease](#)
- [Diabetes Mellitus](#)
- [Disease Progression](#)
- [Edema](#)
- [Endometriosis](#)
- [Esophagitis](#)
- [Fetal Diseases](#)
- [Genetic Predisposition to Disease](#)
- [Hepatitis C](#)
- [Hyperparathyroidism](#)
- [Hypersensitivity](#)
- [Infant](#)
- [Infection](#)
- [Inflammation](#)
- [Kidney Failure](#)
- [Leishmaniasis](#)
- [Liver Neoplasms](#)
- [Lung Neoplasms](#)

- [Measles](#)
- [Multiple Sclerosis](#)
- [Mumps](#)
- [Musculoskeletal Diseases](#)
- [Myasthenia Gravis](#)
- [Occupational Diseases](#)
- [Pain](#)
- [Pregnancy Complications](#)
- [Premature Birth](#)
- [Prostate cancer](#)
- [Prostatic Neoplasms](#)
- [Radiation Injuries](#)
- [Radiation Pneumonitis](#)
- [Respiratory Syncytial Virus Infections](#)
- [Rubella](#)
- [Schizophrenia](#)
- [Skin Diseases](#)
- [Tobacco Use Disorder](#)
- [Viremia](#)
- [Wegener Granulomatosis](#)