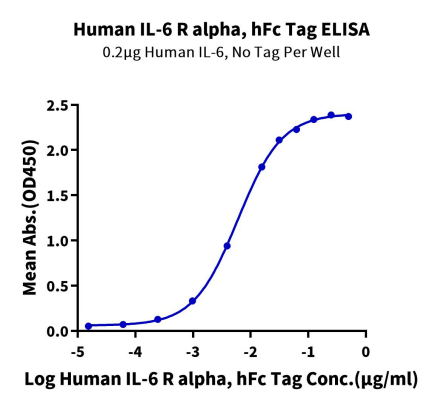
Bioactive CellTx™ HuPro®

IL6R (Human) Recombinant Protein

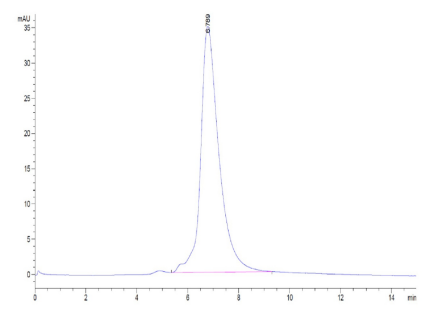
Catalog # P9973 Size 100 ug

Applications



Enzyme-linked Immunoabsorbent Assay

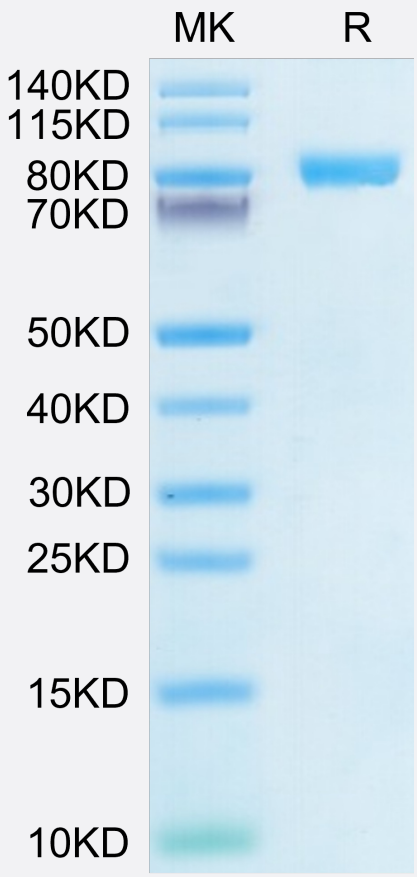
Immobilized Human IL-6 at 2ug/ml (100ul/Well) on the plate. Dose response curve for Human IL-6 R alpha, hFc Tag with the EC_{50} 6.0ng/ml determined by ELISA.



SEC-HPLC

The purity of Human IL-6 R alpha is greater than 95% as determined by SEC-HPLC.

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Tris-Bis PAGE

Human IL-6 R alpha on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

Specification

Product Description	Human IL6R (P08887-1, Leu20-Pro365) partial recombinant protein with hFc tag at C-terminus expressed in HEK293 cells.
Sequence	Leu20-Pro365
Host	Human
Theoretical MW (kDa)	65.3 kDa Due to g
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)
Quality Control Testing	SEC-HPLC and Tris-Bis PAGE SEC-HPLC The purity of Human IL-6 R alpha is greater than 95% as determined by SEC-HPLC. Tris-Bis PAGE Human IL-6 R alpha on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

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Recommend Usage	Biological Activity ELISA 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-6 at 2ug/ml (100ul/Well) on the plate. Dose response curve for Human IL-6 R alpha, hFc Tag with the EC_{50} 6.0ng/ml determined by ELISA.

Gene Info — IL6R

Entrez GeneID	3570
Protein Accession#	P08887-1
Gene Name	IL6R
Gene Alias	CD126, IL-6R-1, IL-6R-alpha, IL6RA, MGC104991
Gene Description	interleukin 6 receptor
Omim ID	147880
Gene Ontology	Hyperlink
Gene Summary	Interleukin 6 (IL6) is a potent pleiotropic cytokine that regulates cell growth and differentiation and plays an important role in immune response. The protein encoded by this gene is a subunit of the receptor complex for IL6. The IL6 receptor is a protein complex consisting of this protein and interl eukin 6 signal transducer (IL6ST/GP130/IL6-beta), a receptor subunit also shared by many other cytokines. Dysregulated production of IL6 and this receptor are implicated in the pathogenesis of many diseases, such as multiple myeloma, autoimmune diseases and prostate cancer. Alternativ ely spliced transcript variants encoding distinct isoforms have been reported. [provided by RefSe q
Other Designations	CD126 antigen|OTTHUMP00000034320|interleukin 6 receptor alpha subunit

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Pathway

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

Disease

- Abscess
- Adenocarcinoma
- Alzheimer disease
- Arthritis
- Asthma
- Atherosclerosis
- Autoimmune Diseases
- Behcet Syndrome
- Bronchiolitis
- Carcinoma
- Cardiovascular Diseases
- Celiac Disease
- Chorioamnionitis
- Connective Tissue Diseases
- Coronary Disease
- Crohn Disease
- Diabetes Complications
- Diabetes Mellitus
- Diabetic Nephropathies

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- Edema
- Esophageal Neoplasms
- Esophagitis
- Fetal Diseases
- Fetal Membranes
- Genetic Predisposition to Disease
- Glucose Intolerance
- Hematologic Diseases
- Hodgkin Disease
- Hyperandrogenism
- Hyperglycemia
- Infant
- Infection
- Inflammation
- Insulin Resistance
- Kidney Failure
- Lung Neoplasms
- Lymphatic Metastasis
- Lymphoproliferative Disorders
- Malignant melanoma
- Melanoma
- Metabolic Syndrome X
- Multiple Myeloma
- Musculoskeletal Diseases
- Myelodysplastic Syndromes
- Neoplasm Invasiveness

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- Neoplasms
- Obesity
- Obstetric Labor
- Occupational Diseases
- Osteoporosis
- Pain
- Periodontitis
- Postoperative Complications
- Pre-Eclampsia
- Pregnancy Complications
- Premature Birth
- Psoriasis
- Pulmonary Disease
- Radiation Injuries
- Radiation Pneumonitis
- Respiratory Syncytial Virus Infections
- Respiratory Tract Infections
- Schizophrenia
- Sepsis
- Skin Diseases
- Skin Neoplasms
- Thoracic Neoplasms
- Tobacco Use Disorder
- Urinary Bladder Neoplasms
- Waldenstrom Macroglobulinemia
- Werner syndrome

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