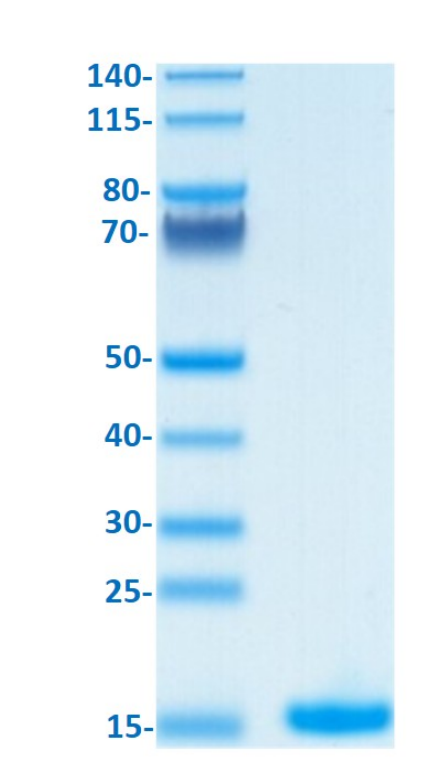
Bioactive

IL2 (Human) Recombinant Protein

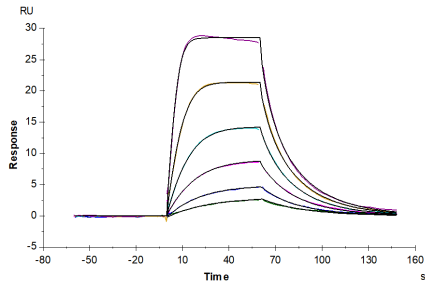
Catalog # P10677 Size 100 ug

Applications



SDS-PAGE

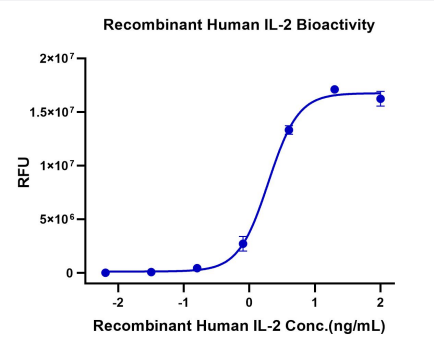
Human IL2 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.



Surface Plasmon Resonance

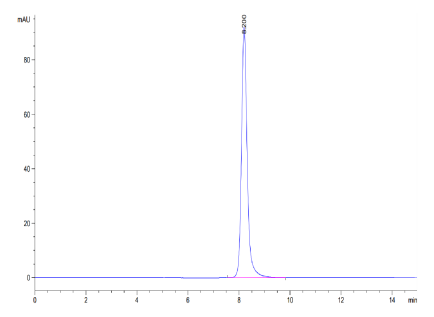
Human IL2 R alpha, His Tag captured on CM5 Chip via anti-his antibody can bind Human IL2, No Tag with an affinity constant of 16.82 nM as determined in SPR assay (Biacore T200).

Copyright © 2023 Abnova Corporation. All Rights Reserved.



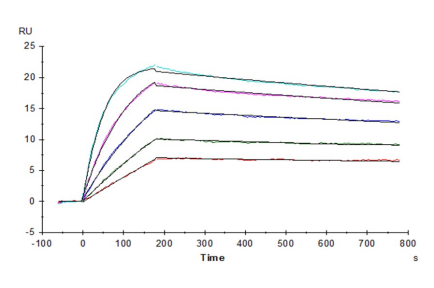
ELISA

Measured in a cell proliferation assay using CTLL-2 mouse cytotoxic T cells. The ED_{50} for this effect is 0.5-2 ng/mL.



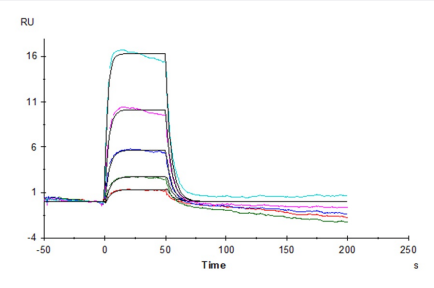
HPLC

The purity of Human IL2 is greater than 95% as determined by SEC-HPLC.



SPR

Human IL2 R beta/IL2 R gamma, hFc Tag captured on CM5 Chip via Protein A can bind Human IL2, No Tag with an affinity constant of 0.114 nM as determined in SPR assay (Biacore T200).



SPR

Human IL2 R beta, His Tag captured on CM5 Chip via Anti-His Antibody can bind Human IL2, No Tag with an affinity constant of 0.25 uM as determined in SPR assay (Biacore T200).

Specification

Product Description	Human IL2 (P60568, Ala21-Thr153) partial recombinant protein expressed in *Escherichia coli*.
Sequence	Ala21-Thr153
Host	Escherichia coli
Theoretical MW (kDa)	15.5

Copyright © 2023 Abnova Corporation. All Rights Reserved.

Reactivity	Mouse
Form	Lyophilized
Preparation Method	*Escherichia coli* expression system
Purity	> 95% by Tris-Bis PAGE > 95% by HPLC
Endotoxin Level	< 0.01 EU per 1 ug as determined by the LAL method.
Activity	The affinity constant was 16.82 nM, determined by SPR assay.
Recommend Usage	Biological Activity ELISA SPR Tris-Bis PAGE SEC-HPLC The optimal working dilution should be determined by the end user.
Storage Buffer	Lyophilized from 0.22 um filtered solution in 100 mM Acetic Acid. Normally 8% trehalose is added as protectant before lyophilization.
Storage Instruction	Store at -20°C for 12 months. After reconstitution, store at -80°C for 3 months. Aliquot to avoid repeated freezing and thawing.

Applications

- Functional Study
- Enzyme-linked Immunoabsorbent Assay
- SDS-PAGE

  Human IL2 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

- Surface Plasmon Resonance

  Human IL2 R alpha, His Tag captured on CM5 Chip via anti-his antibody can bind Human IL2, No Tag with an affinity constant of 16.82 nM as determined in SPR assay (Biacore T200).

Gene Info — IL2

Entrez GeneID	3558
Protein Accession#	P60568

Copyright © 2023 Abnova Corporation. All Rights Reserved.

Gene Name	IL2
Gene Alias	IL-2, TCGF, lymphokine
Gene Description	interleukin 2
Omim ID	147680
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene is a secreted cytokine that is important for the proliferation of T and B lymphocytes. The receptor of this cytokine is a heterotrimeric protein complex whose gam ma chain is also shared by interleukin 4 (IL4) and interleukin 7 (IL7). The expression of this gene i n mature thymocytes is monoallelic, which represents an unusual regulatory mode for controlling th e precise expression of a single gene. The targeted disruption of a similar gene in mice leads to ulcerative colitis-like disease, which suggests an essential role of this gene in the immune respon se to antigenic stimuli. [provided by RefSeq
Other Designations	T cell growth factor|aldesleukin|interleukin-2|involved in regulation of T-cell clonal expansion

Pathway

- Allograft rejection
- Autoimmune thyroid disease
- Cytokine-cytokine receptor interaction
- Graft-versus-host disease
- Jak-STAT signaling pathway
- T cell receptor signaling pathway
- Type I diabetes mellitus

Disease

- Abscess
- Acquired Immunodeficiency Syndrome
- Acute Disease
- Addison Disease

Copyright © 2023 Abnova Corporation. All Rights Reserved.

- Adenocarcinoma
- Aggressive Periodontitis
- Alopecia Areata
- Alveolar Bone Loss
- Alveolitis
- Alzheimer disease
- Arthralgia
- Arthritis
- Asthma
- Atherosclerosis
- Autoimmune Diseases
- Barrett Esophagus
- Berylliosis
- Breast Neoplasms
- Bronchiolitis
- Brucellosis
- Carcinoma
- Cardiomyopathy
- Cardiovascular Diseases
- Celiac Disease
- Chagas Disease
- Chorioamnionitis
- Chronic Disease
- Chronic Periodontitis
- Colitis
- Common Cold

Copyright © 2023 Abnova Corporation. All Rights Reserved.

- Common Variable Immunodeficiency
- Connective Tissue Diseases
- Coronary Artery Disease
- Crohn Disease
- Cystic fibrosis
- Diabetes Complications
- Diabetes Mellitus
- Disease Progression
- Duodenal Ulcer
- Edema
- Epstein-Barr Virus Infections
- Esophageal Neoplasms
- Esophagitis
- Fetal Diseases
- Fetal Membranes
- Gastritis
- Gastrointestinal Neoplasms
- Genetic Predisposition to Disease
- Gonorrhea
- Graft vs Host Disease
- Graves Disease
- Hashimoto Disease
- Helicobacter Infections
- Hematologic Diseases
- Hepatitis B
- Hepatitis C

Copyright © 2023 Abnova Corporation. All Rights Reserved.

- Hernia
- HIV Infections
- Hodgkin Disease
- Hyperglycemia
- Hyperparathyroidism
- Hypersensitivity
- Hypertension
- Idiopathic Pulmonary Fibrosis
- Immune System Diseases
- Infant
- Infection
- Inflammation
- Intervertebral Disk Displacement
- Irritable Bowel Syndrome
- Kidney Diseases
- Kidney Failure
- Leiomyoma
- Leprosy
- Leptospirosis
- Leukemia
- Lichen Planus
- Liver Cirrhosis
- Liver Neoplasms
- Lung Diseases
- Lung Neoplasms
- Lupus Erythematosus

Copyright © 2023 Abnova Corporation. All Rights Reserved.

- Lymphatic Metastasis
- Lymphoma
- Lymphoproliferative Disorders
- Malignant melanoma
- Melanoma
- Mental Disorders
- Metabolic Syndrome X
- Multiple Myeloma
- Multiple Sclerosis
- Musculoskeletal Diseases
- Nasopharyngeal Neoplasms
- Neoplasm Invasiveness
- Neoplasms
- Neuroendocrine Tumors
- Neuropsychological Tests
- Obstetric Labor
- Occupational Diseases
- Osteolysis
- Osteoporosis
- Pain
- Pancreatic Neoplasms
- Parasitic Diseases
- Parkinson disease

- Pemphigus
- Peptic Ulcer

Copyright © 2023 Abnova Corporation. All Rights Reserved.

- Periodontal Attachment Loss
- Periodontal Pocket
- Periodontitis
- Postoperative Complications
- Pre-Eclampsia
- Pregnancy Complications
- Premature Birth
- Prostate cancer
- Prostatic Neoplasms
- Prosthesis Failure
- Psoriasis
- Psychiatric Status Rating Scales
- Pulmonary Disease
- Pulmonary Fibrosis
- Purpura
- Radiation Injuries
- Radiation Pneumonitis
- Renal Artery Obstruction
- Respiratory Hypersensitivity
- Respiratory Syncytial Virus Infections
- Respiratory Tract Infections
- Rhinitis
- Sarcoidosis
- Schizophrenia
- Sciatica
- Scleroderma

Copyright © 2023 Abnova Corporation. All Rights Reserved.

- Sepsis
- Skin Diseases
- Skin Neoplasms
- Skin Ulcer
- Stomach Neoplasms
- Stomach Ulcer
- Subacute Sclerosing Panencephalitis
- Thoracic Neoplasms
- Tuberculosis
- Urinary Bladder Neoplasms
- Uterine Cervical Neoplasms
- Uterine Neoplasms
- Vaginosis
- Vascular Diseases
- Vulvar Neoplasms
- Waldenstrom Macroglobulinemia
- Werner syndrome

Copyright © 2023 Abnova Corporation. All Rights Reserved.