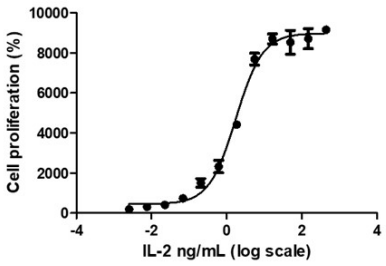
Bioactive | CellTx™ | GMP Grade

IL2 (Human) Recombinant Protein

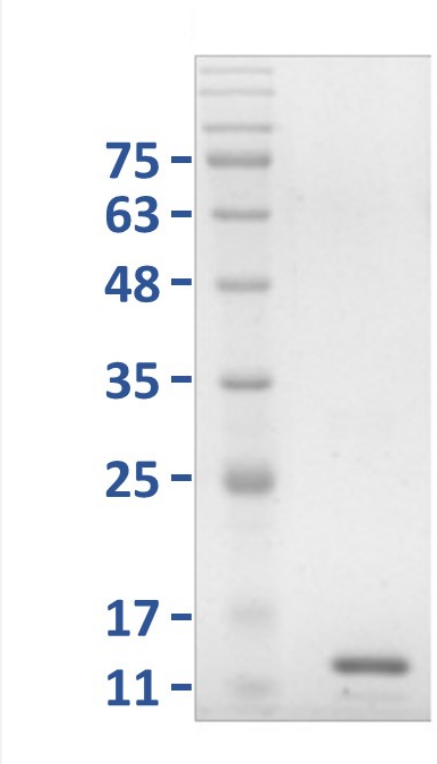
Catalog # P6993 Size 100 ug

Applications



Functional Study

The ED_{50} for this effect is < 3 ng/mL, measured by the induction of proliferation in CTLL-2 cells.



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Specification

Product Description	Human IL2 recombinant protein with His tag expressed in *Escherichia coli*.
Host	Escherichia coli
Theoretical MW (kDa)	Calculated MW: 16.4
Form	Lyophilized
Preparation Method	*Escherichia coli* expression system
Purification	Ni-NTA chromatography
Purity	> 97% by SDS-PAGE
Endotoxin Level	< 0.05 EU/ug
Activity	The ED_{50} for this effect is < 3 ng/mL, measured by the induction of proliferation in CTLL-2 cells. The specific activity of recombinant human IL-2 is > 5 x 10^6 IU/mg, which is calibrated against the human IL-2 WHO International Standard (NIBSC code: 86/500).
Quality Control Testing	SDS-PAGE Stained with Coomassie Blue
Recommend Usage	SDS-PAGE The optimal working dilution should be determined by the end user.
Regulatory Status	GMP grade
Storage Buffer	Lyophilized from NaPi buffer, 0.018% SDS, pH 7.5. Reconstitute the lyophilized protein in sterile H_2O to a concentration of at least 0.5 mg/mL and incubate the stock solution for at least 20 min to ensure sufficient redissolution. Please use the protein within one month after reconstitution.
Storage Instruction	Store at -20°C for 12 months in lyophilized state. After reconstitution with deionized water, store at -20 or -80°C for 1 month. Aliquot to avoid repeated freezing and thawing.

Applications

- Functional Study

  The ED_{50} for this effect is < 3 ng/mL, measured by the induction of proliferation in CTLL-2 cells.

- SDS-PAGE

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Gene Info — IL2

Entrez GeneID	3558
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

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- Acute Disease
- Addison Disease
- 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

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- Colitis
- Common Cold
- 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

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- Hematologic Diseases
- Hepatitis B
- Hepatitis C
- 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

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- Lung Diseases
- Lung Neoplasms
- Lupus Erythematosus
- 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

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- Pemphigus
- Peptic Ulcer
- 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

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- Sciatica
- Scleroderma
- 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

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