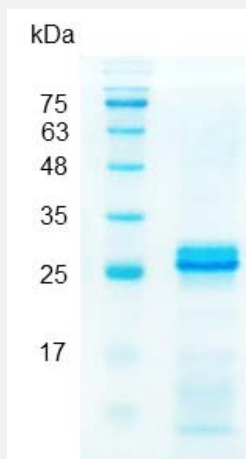


IL2 & IL15 Fusion (Human) Recombinant Protein

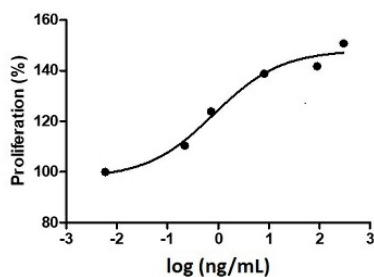
Catalog # P7812

Size 20 ug

Applications



SDS-PAGE analysis of IL2 and IL15 Fusion (Human) Recombinant Protein.



Result of activity analysis

Result of activity analysis

Specification

Product Description

Human IL2 and IL15 fusion recombinant protein expressed in *Escherichia coli*.

Sequence

MAPTSSSTKKTQLQLEHLLLDLQMILNGINNYKNPKLTRMLTFKFYMPKKATELKHLQCLEELKPL
EEVLNLAQSKNFHLRPRDLISNINVMLELKGSETTFMCEYADETATVEFLNRWITFCQSIISTLT(link
er)NWKVNVISDLKIEDLIQSMHIDATLYTESDVHPSCVKVTAMKCFLEELQVISLESGDASIHDVTENLI
ILANNSLSSNGNVTESGCKECEELEEKNKEFLQSFVHVQMFINTSLE.

Host

Escherichia coli

Form

Lyophilized

Preparation Method

Escherichia coli expression system

Purification	Ni-NTA chromatography
Purity	> 98% as determined by SDS-PAGE.
Endotoxin Level	< 0.1 EU/ ug of protein by the LAL method.
Quality Control Testing	SDS-PAGE Stained with Coomassie Blue. SDS-PAGE analysis of IL2 and IL15 Fusion (Human) Recombinant Protein.
Recommend Usage	Biological Activity SDS-PAGE The optimal working dilution should be determined by the end user.
Storage Buffer	Lyophilized from a solution containing 1X PBS, pH 7.4. Reconstitute the lyophilized powder in ddH ₂ O to 100 ug/mL.
Storage Instruction	Lyophilized protein should be stored at -20°C. Protein aliquots should be stored at -20°C to -80°C.
Note	Result of activity analysis Result of activity analysis

Applications

- Functional Study
- SDS-PAGE

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 gamma chain is also shared by interleukin 4 (IL4) and interleukin 7 (IL7). The expression of this gene in mature thymocytes is monoallelic, which represents an unusual regulatory mode for controlling the 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 response to antigenic stimuli. [provided by RefSeq]

Other Designations

T cell growth factor|aldesleukin|interleukin-2|involved in regulation of T-cell clonal expansion

Gene Info — IL15

Entrez GeneID

[3600](#)

Gene Name

IL15

Gene Alias

IL-15, MGC9721

Gene Description

interleukin 15

Omim ID

[600554](#)

Gene Ontology

[Hyperlink](#)

Gene Summary

The protein encoded by this gene is a cytokine that regulates T and natural killer cell activation and proliferation. This cytokine and interleukine 2 share many biological activities. They are found to bind common hematopoietin receptor subunits, and may compete for the same receptor, and thus negatively regulate each other's activity. The number of CD8+ memory cells is shown to be controlled by a balance between this cytokine and IL2. This cytokine induces the activation of JAK kinases, as well as the phosphorylation and activation of transcription activators STAT3, STAT5, and STAT6. Studies of the mouse counterpart suggested that this cytokine may increase the expression of apoptosis inhibitor BCL2L1/BCL-x(L), possibly through the transcription activation activity of STAT6, and thus prevent apoptosis. Two alternatively spliced transcript variants of this gene encoding the same protein have been reported. [provided by RefSeq]

Other Designations

OTTHUMP00000164617

Pathway

- [Allograft rejection](#)
- [Autoimmune thyroid disease](#)
- [Cytokine-cytokine receptor interaction](#)
- [Cytokine-cytokine receptor interaction](#)

- [Graft-versus-host disease](#)
- [Jak-STAT signaling pathway](#)
- [Jak-STAT signaling pathway](#)
- [T cell receptor signaling pathway](#)
- [Type I diabetes mellitus](#)

Disease

- [Abscess](#)
- [Acquired Immunodeficiency Syndrome](#)
- [Acute Disease](#)
- [Addison Disease](#)
- [Adenocarcinoma](#)
- [Adenocarcinoma](#)
- [Aggressive Periodontitis](#)
- [Alopecia Areata](#)
- [Alveolar Bone Loss](#)
- [Alveolitis](#)
- [Alzheimer disease](#)
- [Arthralgia](#)
- [Arthritis](#)
- [Arthritis](#)
- [Asthma](#)
- [Asthma](#)
- [Atherosclerosis](#)
- [Autoimmune Diseases](#)

- [Barrett Esophagus](#)
- [Berylliosis](#)
- [Breast Neoplasms](#)
- [Bronchial Hyperreactivity](#)
- [Bronchiolitis](#)
- [Bronchiolitis](#)
- [Brucellosis](#)
- [Carcinoma](#)
- [Carcinoma](#)
- [Cardiomyopathy](#)
- [Cardiovascular Diseases](#)
- [Cardiovascular Diseases](#)
- [Celiac Disease](#)
- [Celiac Disease](#)
- [Chagas Disease](#)
- [Chorioamnionitis](#)
- [Chronic Disease](#)
- [Chronic Periodontitis](#)
- [Colitis](#)
- [Common Cold](#)
- [Common Variable Immunodeficiency](#)
- [Connective Tissue Diseases](#)
- [Connective Tissue Diseases](#)
- [Coronary Artery Disease](#)
- [Coronary Disease](#)
- [Crohn Disease](#)

- [Cystic fibrosis](#)
- [Diabetes Complications](#)
- [Diabetes Mellitus](#)
- [Diabetes Mellitus](#)
- [Disease Progression](#)
- [Duodenal Ulcer](#)
- [Edema](#)
- [Edema](#)
- [Epstein-Barr Virus Infections](#)
- [Esophageal Neoplasms](#)
- [Esophageal Neoplasms](#)
- [Esophagitis](#)
- [Fetal Diseases](#)
- [Fetal Diseases](#)
- [Fetal Membranes](#)
- [Fractures](#)
- [Gastritis](#)
- [Gastrointestinal Neoplasms](#)
- [Genetic Predisposition to Disease](#)
- [Genetic Predisposition to Disease](#)
- [Gonorrhea](#)
- [Graft vs Host Disease](#)
- [Graves Disease](#)
- [Hashimoto Disease](#)
- [Helicobacter Infections](#)
- [Hematologic Diseases](#)

- [Hematologic Diseases](#)
- [Hepatitis B](#)
- [Hepatitis C](#)
- [Hernia](#)
- [HIV Infections](#)
- [Hodgkin Disease](#)
- [Hodgkin Disease](#)
- [Hyperglycemia](#)
- [Hyperparathyroidism](#)
- [Hypersensitivity](#)
- [Hypersensitivity](#)
- [Hypertension](#)
- [Hypertrophy](#)
- [Idiopathic Pulmonary Fibrosis](#)
- [Immune System Diseases](#)
- [Infant](#)
- [Infant](#)
- [Infection](#)
- [Infection](#)
- [Inflammation](#)
- [Inflammation](#)
- [Intervertebral Disk Displacement](#)
- [Irritable Bowel Syndrome](#)
- [Kidney Diseases](#)
- [Kidney Failure](#)
- [Kidney Failure](#)

- [Leiomyoma](#)
- [Leprosy](#)
- [Leptospirosis](#)
- [Leukemia](#)
- [Lichen Planus](#)
- [Liver Cirrhosis](#)
- [Liver Neoplasms](#)
- [Lung Diseases](#)
- [Lung Neoplasms](#)
- [Lung Neoplasms](#)
- [Lupus Erythematosus](#)
- [Lymphatic Metastasis](#)
- [Lymphoma](#)
- [Lymphoma](#)
- [Lymphoproliferative Disorders](#)
- [Lymphoproliferative Disorders](#)
- [Malignant melanoma](#)
- [Melanoma](#)
- [Mental Disorders](#)
- [Metabolic Syndrome X](#)
- [Metabolic Syndrome X](#)
- [Multiple Myeloma](#)
- [Multiple Myeloma](#)
- [Multiple Sclerosis](#)
- [Musculoskeletal Diseases](#)
- [Musculoskeletal Diseases](#)

- [Nasopharyngeal Neoplasms](#)
- [Neoplasm](#)
- [Neoplasm Invasiveness](#)
- [Neoplasms](#)
- [Neuroendocrine Tumors](#)
- [Neuropsychological Tests](#)
- [Obesity](#)
- [Obstetric Labor](#)
- [Occupational Diseases](#)
- [Occupational Diseases](#)
- [Osteolysis](#)
- [Osteoporosis](#)
- [Osteoporosis](#)
- [Pain](#)
- [Pancreatic Neoplasms](#)
- [Parasitic Diseases](#)
- [Parkinson disease](#)
- [Pemphigus](#)
- [Peptic Ulcer](#)
- [Periodontal Attachment Loss](#)
- [Periodontal Pocket](#)
- [Periodontitis](#)
- [Postoperative Complications](#)
- [Pre-Eclampsia](#)
- [Pregnancy Complications](#)

- [Pregnancy Complications](#)
- [Premature Birth](#)
- [Premature Birth](#)
- [Prostate cancer](#)
- [Prostatic Neoplasms](#)
- [Prosthesis Failure](#)
- [Psoriasis](#)
- [Psoriasis](#)
- [Psychiatric Status Rating Scales](#)
- [Pulmonary Disease](#)
- [Pulmonary Disease](#)
- [Pulmonary Fibrosis](#)
- [Purpura](#)
- [Radiation Injuries](#)
- [Radiation Pneumonitis](#)
- [Recurrence](#)
- [Renal Artery Obstruction](#)
- [Respiratory Hypersensitivity](#)
- [Respiratory Syncytial Virus Infections](#)
- [Respiratory Syncytial Virus Infections](#)
- [Respiratory Tract Infections](#)
- [Rhinitis](#)
- [Sarcoidosis](#)
- [Schizophrenia](#)
- [Sciatica](#)
- [Scleroderma](#)

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