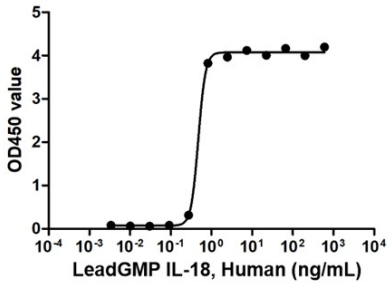
Bioactive | CellTx™ | GMP Grade

IL18 (Human) Recombinant Protein

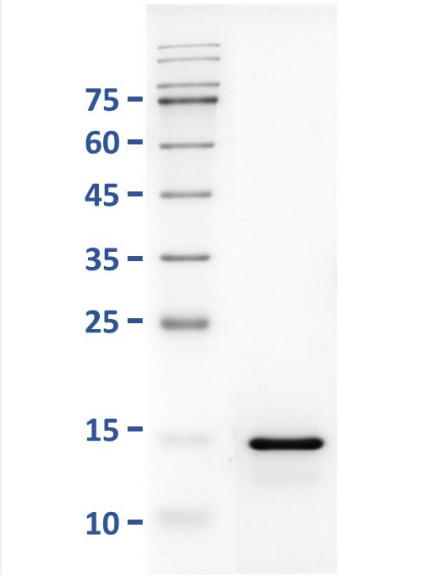
Catalog # P7000 Size 100 ug

Applications



Functional Study

The ED_{50} for this effect is <6 ng/mL, measured by the induction of IFN gamma secretion in KG-1 cells.



Specification

Product Description	Human IL18 recombinant protein with polyhistidine tag at the C-terminus expressed in *Escherichia coli*.

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Host	Escherichia coli
Theoretical MW (kDa)	Calculated MW: 18.2
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 < 6 ng/mL, measured by the induction of IFN gamma secretion in KG-1 cells. The specific activity of recombinant human IL-18 is > 1 x 10^7 IU/mg, which is calibrated against the human IL-18 WHO Reference Reagent (NIBSC code: 03/200).
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 PBS, pH 7.4. 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 <6 ng/mL, measured by the induction of IFN gamma secretion in KG-1 cells.

- SDS-PAGE

Gene Info — IL18

Entrez GeneID	3606

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Gene Name	IL18
Gene Alias	IGIF, IL-18, IL-1g, IL1F4, MGC12320
Gene Description	interleukin 18 (interferon-gamma-inducing factor)
Omim ID	600953
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene is a proinflammatory cytokine. This cytokine can induce the IFN-gamma production of T cells. The combination of this cytokine and IL12 has been shown to inhibit IL4 dependent IgE and IgG1 production, and enhance IgG2a production of B cells. IL-18 binding p rotein (IL18BP) can specifically interact with this cytokine, and thus negatively regulate its biologic al activity. [provided by RefSeq
Other Designations	IL-1 gamma|interferon-gamma-inducing factor|interleukin 18|interleukin-1 gamma|interleukin-18

Pathway

- Cytokine-cytokine receptor interaction

Disease

- Abortion
- Acute Lung Injury
- Adenocarcinoma
- Aggressive Periodontitis
- Alzheimer disease
- Arthritis
- Asthma
- Atherosclerosis
- Atrial Fibrillation
- Autoimmune Diseases
- Behcet Syndrome
- Brain Ischemia

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- Breast cancer
- Breast Neoplasms
- Bronchial Hyperreactivity
- Bronchiolitis
- Carcinoma
- Cardiovascular Diseases
- Celiac Disease
- Chorioamnionitis
- Choriocarcinoma
- Choroidal Neovascularization
- Chronic Periodontitis
- Cognition Disorders
- Colitis
- Colorectal Neoplasms
- Connective Tissue Diseases
- Coronary Artery Disease
- Coronary Disease
- Crohn Disease
- Death
- Dermatitis
- Diabetes Complications
- Diabetes Mellitus
- Disease Progression
- Duodenal Ulcer
- Dyspepsia
- Edema

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- Endometriosis
- Endotoxemia
- Epstein-Barr Virus Infections
- Esophageal Neoplasms
- Fetal Diseases
- Fetal Membranes
- Gastrointestinal Neoplasms
- Genetic Predisposition to Disease
- Giant Cell Arteritis
- Gingivitis
- Glomerulonephritis
- Graft vs Host Disease
- Graves Disease
- Graves Ophthalmopathy
- Head and Neck Neoplasms
- Heart Diseases
- Helicobacter Infections
- Hematologic Diseases
- Hemophilia A
- Hepatitis B
- Hepatitis C
- HIV Infections
- HIV-Associated Lipodystrophy Syndrome
- Hodgkin Disease
- Hydatidiform Mole
- Hypersensitivity

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- Hypertension
- Infant
- Infection
- Inflammation
- Inflammatory Bowel Diseases
- Insulin Resistance
- Intracranial Arteriosclerosis
- Kidney Calculi
- Kidney Failure
- Kidney Neoplasms
- Latex Hypersensitivity
- Leiomyoma
- Lichen Planus
- Liver Neoplasms
- Lung Neoplasms
- Lupus Erythematosus
- Lupus Nephritis
- Lymphadenitis
- Lymphoma
- Lymphoproliferative Disorders
- Macular Degeneration
- Metabolic Syndrome X
- Metaplasia
- Mouth Neoplasms
- Mucocutaneous Lymph Node Syndrome

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- Multiple Myeloma
- Musculoskeletal Diseases
- Mycobacterium Infections
- Myocardial Infarction
- Nasopharyngeal Neoplasms
- Neoplasms
- Obesity
- Obstetric Labor
- Occupational Diseases
- Osteoporosis
- Ovarian cancer
- Ovarian Neoplasms
- Pain
- Pancreatic cancer
- Pancreatic Neoplasms
- Periodontitis
- Pneumoconiosis
- Postoperative Complications
- Precancerous Conditions
- Pre-Eclampsia
- Pregnancy Complications
- Premature Birth
- Prostate cancer
- Prostatic Neoplasms
- Proteinuria
- Pulmonary Disease

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- Purpura
- Recurrence
- Respiratory Syncytial Virus Infections
- Retinal Vein Occlusion
- Rhinitis
- Sarcoidosis
- Schistosomiasis mansoni
- Schizophrenia
- Skin Diseases
- Stomach Neoplasms
- Stomach Ulcer
- Stroke
- Substance Abuse
- Thyroid Diseases
- Tuberculosis
- Uterine Cervical Neoplasms
- Uterine Neoplasms
- Uveitis
- Vasculitis
- Waldenstrom Macroglobulinemia
- Werner syndrome
- Wounds and Injuries

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