Bioactive CellTx™ Sm Size

IL6 (Human) Recombinant Protein

Catalog # P9955 Size 100 ug, 20 ug

Specification

Regulatory Status	RUO grade
Product Description	Human IL6 recombinant protein with His tag at the C-terminus expressed in *Escherichia coli*.
Host	Escherichia coli
Theoretical MW (kDa)	Calculated MW: 21.8
Form	Lyophilized
Preparation Method	*Escherichia coli* expression system
Purity	> 98% by SDS-PAGE
Endotoxin Level	< 0.1 EU/ug
Activity	The ED_{50} for this effect is < 0.5 ng/mL, measured by its ability to induce TF-1 cells. The specific activity of recombinant human IL-6 is approximately > 1 x 10^8 IU/mg.
Recommend Usage	SDS-PAGE The optimal working dilution should be determined by the end user.
Storage Buffer	Lyophilized from PBS, pH 8.0. Reconstitute the lyophilized protein in sterile H_2O to a concentration of at least 200 ug/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

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- SDS-PAGE

Gene Info — IL6

Entrez GeneID	3569
Gene Name	IL6
Gene Alias	BSF2, HGF, HSF, IFNB2, IL-6
Gene Description	interleukin 6 (interferon, beta 2)
Omim ID	147620 148000 166710
Gene Ontology	Hyperlink
Gene Summary	This gene encodes a cytokine that functions in inflammation and the maturation of B cells. The pro tein is primarily produced at sites of acute and chronic inflammation, where it is secreted into the serum and induces a transcriptional inflammatory response through interleukin 6 receptor, alpha. The functioning of this gene is implicated in a wide variety of inflammation-associated disease st ates, including suspectibility to diabetes mellitus and systemic juvenile rheumatoid arthritis. [provi ded by RefSeq
Other Designations	interleukin 6

Pathway

- Cytokine-cytokine receptor interaction
- Graft-versus-host disease
- Hematopoietic cell lineage
- Hypertrophic cardiomyopathy (HCM)
- Jak-STAT signaling pathway
- Pathways in cancer
- Prion diseases
- Toll-like receptor signaling pathway

Disease

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- Abortion
- Abscess
- Acquired Immunodeficiency Syndrome
- Acute Disease
- Acute Lung Injury
- Acute-Phase Reaction
- Adenocarcinoma
- Adenoma
- Adenomatous Polyps
- Aggressive Periodontitis
- AIDS-Related Opportunistic Infections
- Alcoholism
- Alphavirus Infections
- Alveolar Bone Loss
- Alveolitis
- Alzheimer disease
- Amnesia
- Amyloidosis
- Anemia
- Aneurysm
- Angina
- Angina Pectoris
- Anorexia
- Anorexia Nervosa
- Aortic Aneurysm
- Aortic Rupture

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- Appendicitis
- Appetite
- Arterial Occlusive Diseases
- Arteriosclerosis
- Arthralgia
- Arthritis
- Aspergillosis
- Asphyxia Neonatorum
- Asthma
- Atherosclerosis
- Atrial Fibrillation
- Attention
- Attention Deficit Disorder with Hyperactivity
- Autoimmune Diseases
- Bacteremia
- Bacterial Infections
- Barrett Esophagus
- Behcet Syndrome
- Biliary Tract Neoplasms
- Bipolar Disorder
- Birth Weight
- Blood Coagulation Disorders
- Blood Loss
- Body Weight
- Bone Diseases
- Bone Marrow Diseases

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- Bone Resorption
- Brain Infarction
- Brain Ischemia
- Brain Neoplasms
- Breast cancer
- Breast Neoplasms
- Bronchiolitis
- Bronchiolitis Obliterans
- Bronchitis
- Bronchopneumonia
- Brucellosis
- Bulimia
- Burns
- Cachexia
- Cadaver
- Calcinosis
- Carcinoma
- Cardiovascular Diseases
- Carotid Artery Diseases
- Carotid Stenosis
- Celiac Disease
- Cerebral Hemorrhage
- Cerebral Infarction
- Cerebral Palsy
- Cerebrovascular Accident
- Cervical Intraepithelial Neoplasia

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- Chagas Cardiomyopathy
- Chagas Disease
- Chlamydia Infections
- Chorioamnionitis
- Choroidal Neovascularization
- Chronic Disease
- Chronic Periodontitis
- Cognition
- Cognition Disorders
- Colitis
- Colon cancer
- Colonic Neoplasms
- Colonic Polyps
- Colorectal Neoplasms
- Common Cold
- Common Variable Immunodeficiency
- Communicable Diseases
- Community-Acquired Infections
- Connective Tissue Diseases
- Constriction
- Corneal Diseases
- Coronary Artery Disease
- Coronary Disease
- Coronary Stenosis
- Coronary Thrombosis
- Coronary Vasospasm

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- Critical Illness
- Crohn Disease
- Cystadenocarcinoma
- Cystic fibrosis
- Cytomegalovirus Infections
- Cytomegalovirus Retinitis
- Delayed Graft Function
- Dementia
- Dengue Hemorrhagic Fever
- Dental Plaque
- Depressive Disorder
- Dermatitis
- Developmental Disabilities
- Diabetes
- Diabetes Complications
- Diabetes Mellitus
- Diabetic Angiopathies
- Diabetic Nephropathies
- Diabetic Retinopathy
- Discrimination (Psychology)
- Disease Models
- Disease Progression
- Disease Susceptibility
- Diseases in Twins
- Ductus Arteriosus

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- Duodenal Ulcer
- Dyslipidemias
- Eclampsia
- Edema
- Embryo Loss
- Encephalitis
- Encephalomyelitis
- Endometriosis
- Endotoxemia
- Enterocolitis
- Epilepsy
- Epstein-Barr Virus Infections
- Erythema Nodosum
- Esophageal Neoplasms
- Esophagitis
- Familial Mediterranean fever
- Fatigue
- Fatigue Syndrome
- Fatty Liver
- Femoral Neck Fractures
- Fetal Death
- Fetal Diseases
- Fetal Growth Retardation
- Fetal Membranes
- Fever
- Fractures

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- Gallbladder Neoplasms
- Gastritis
- Gastroenteritis
- Gastrointestinal Diseases
- Gastrointestinal Neoplasms
- Gaucher disease
- Genetic Predisposition to Disease
- Gingival Hemorrhage
- Gingival Overgrowth
- Gingivitis
- Glioma
- Glomerulonephritis
- Glomerulosclerosis
- Glossitis
- Glucose Intolerance
- Glucose Metabolism Disorders
- Glucosephosphate Dehydrogenase Deficiency
- Gout
- Graft vs Host Disease
- Gram-Negative Bacterial Infections
- Graves Disease
- Hashimoto Disease
- Heart Valve Diseases
- Helicobacter Infections
- Hematologic Diseases
- Hematologic Neoplasms

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- Hematuria
- Hemochromatosis
- Hemorrhage
- Hepatitis
- Hepatitis B
- Hepatitis C
- Hernia
- Herpesviridae Infections
- Hip Fractures
- HIV Infections
- HIV-Associated Lipodystrophy Syndrome
- Hodgkin Disease
- HTLV-I Infections
- Hyperandrogenism
- Hypercholesterolemia
- Hyperglycemia
- Hyperinsulinism
- Hyperlipidemias
- Hypersensitivity
- Hypertension
- Hypertrophy
- Hyperuricemia
- Hypoxia-Ischemia
- Idiopathic Pulmonary Fibrosis
- IgA Deficiency
- Infant

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- Infection
- Infectious Mononucleosis
- Infertility
- Inflammation
- Inflammatory Bowel Diseases
- Influenza
- Insulin Resistance
- Intelligence Tests
- Intervertebral Disk Displacement
- Intracranial Aneurysm
- Intracranial Arteriosclerosis
- Intracranial Arteriovenous Malformations
- Intracranial Hemorrhages
- Intracranial Thrombosis
- Irritable Bowel Syndrome
- Ischemic Attack
- Joint Diseases
- Kidney Diseases
- Kidney Failure
- Kidney Neoplasms
- Leiomyoma
- Leishmaniasis
- Leprosy
- Leptospirosis
- Leukemia
- Leukomalacia

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- Lichen Planus
- Lipodystrophy
- Liver Cirrhosis
- Liver Diseases
- Liver Neoplasms
- Lung Diseases
- Lung Neoplasms
- Lupus Erythematosus
- Lymphatic Metastasis
- Lymphoma
- Lymphoproliferative Disorders
- Macular Degeneration
- Macular Edema
- Malaria
- Malignant melanoma
- Malnutrition
- Measles
- Melanoma
- Memory
- Mental Disorders
- Mental Processes
- Mental Retardation
- Metabolic Diseases
- Metabolic Syndrome X
- Metaplasia
- Microsatellite Instability

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- Migraine Disorders
- Migraine with Aura
- Migraine without Aura
- Mood Disorders
- Mouth Neoplasms
- Mucocutaneous Lymph Node Syndrome
- Multiple Myeloma
- Multiple Organ Failure
- Multiple Sclerosis
- Multiple System Atrophy
- Multiple Trauma
- Mumps
- Musculoskeletal Diseases
- Mycobacterium avium-intracellulare Infection
- Myelodysplastic Syndromes
- Myocardial Infarction
- Myocardial Ischemia
- Myocardial Reperfusion Injury
- Nasal Polyps
- Neoplasm Invasiveness
- Neoplasm Metastasis
- Neoplasm Recurrence
- Neoplasms
- Nephrotic Syndrome
- Nervous System Diseases
- Nervous System Neoplasms

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- Neuroblastoma
- Neuroendocrine Tumors
- Neuropsychological Tests
- Neutropenia
- Obesity
- Obstetric Labor
- Occupational Diseases
- Osteoarthritis
- Osteolysis
- Osteomyelitis
- Osteoporosis
- Osteosarcoma
- Otitis Media
- Ovarian cancer
- Ovarian Cysts
- Ovarian Failure
- Ovarian Neoplasms
- Pain
- Pain Threshold
- Pancreatic cancer
- Pancreatic Neoplasms
- Pancreatitis
- Papillomavirus Infections
- Paraparesis
- Paraproteinemias
- Parasitic Diseases

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- Parkinson disease
- Parvoviridae Infections
- Pelvic Pain
- Pemphigoid
- Pemphigus
- Peptic Ulcer
- Periapical Periodontitis
- Periodontal Attachment Loss
- Periodontal Diseases
- Periodontal Pocket
- Periodontitis
- Peripheral Vascular Diseases
- Peritoneal Neoplasms
- Picornaviridae Infections
- Plasmacytoma
- Pneumoconiosis
- Pneumonia
- Polycystic kidney disease
- Polycystic Ovary Syndrome
- Polymyalgia Rheumatica

- Postoperative Complications
- Postoperative Hemorrhage
- Precancerous Conditions
- Pre-Eclampsia
- Pregnancy Complications

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- Premature Birth
- Prostate cancer
- Prostatic Hyperplasia
- Prostatic Neoplasms
- Prostatitis
- Prosthesis Failure
- Prosthesis-Related Infections
- Proteinuria
- Psoriasis
- Psychiatric Status Rating Scales
- Psychomotor Performance
- Puberty
- Puerperal Disorders
- Pulmonary Disease
- Pulmonary Embolism
- Pulmonary Fibrosis
- Purpura
- Pyelonephritis
- Q Fever
- Radiation Injuries
- Radiation Pneumonitis
- Radius Fractures
- Rectal Neoplasms
- Recurrence
- Reflex Sympathetic Dystrophy
- Renal Artery Obstruction

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- Reperfusion Injury
- Respiratory Distress Syndrome
- Respiratory Syncytial Virus Infections
- Respiratory Tract Infections
- Retinal Artery Occlusion
- Retinal Detachment
- Retinal Vein Occlusion
- Rhabdomyolysis
- Rheumatic Heart Disease
- Rhinitis
- Rubella
- Rupture
- Salmonella Infections
- Sarcoidosis
- Sarcoma
- Schizophrenia
- Sciatica
- Scleroderma
- Scoliosis
- Seizures
- Sepsis
- Severe Acute Respiratory Syndrome
- Shock
- Skin Diseases
- Skin Neoplasms
- Skin Ulcer

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- Sleep Apnea
- Sleep Disorders
- Spinal Cord Diseases
- Spinal Diseases
- Spinal Fractures
- Spondylitis
- Stomach Neoplasms
- Stomach Ulcer
- Stomatitis
- Streptococcal Infections
- Stress
- Stroke
- Subarachnoid Hemorrhage
- Substance Withdrawal Syndrome
- Sudden Infant Death
- Syndrome
- Systemic Inflammatory Response Syndrome
- Temporal Arteritis
- Thinness
- Thoracic Neoplasms
- Thrombophilia
- Thrombosis
- Thyroid Neoplasms
- Thyroiditis
- Tobacco Use Disorder
- Tooth Diseases

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- Tooth Loss
- Trachoma
- Trypanosomiasis
- Tuberculosis
- Urinary Bladder Neoplasms
- Urinary Tract Infections
- Uterine Cervical Neoplasms
- Uterine Diseases
- Uterine Neoplasms
- Uveitis
- Vaginal Diseases
- Vaginosis
- Vascular Diseases
- Venous Thrombosis
- Vitreoretinopathy
- Vulvar Neoplasms
- Waldenstrom Macroglobulinemia
- Weight Gain
- Weight Loss
- Werner syndrome
- Wounds and Injuries

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