Bioactive CellTx™ Sm Size

IL10 (Human) Recombinant Protein

Catalog # P9956 Size 100 ug, 20 ug

Specification

Regulatory Status	RUO grade
Product Description	Human IL10 recombinant protein with His tag at the C-terminus expressed in *Escherichia coli*.
Host	Escherichia coli
Theoretical MW (kDa)	Calculated MW: 19.6
Form	Lyophilized
Preparation Method	*Escherichia coli* expression system
Purity	> 98% by SDS-PAGE
Endotoxin Level	< 0.01 EU/ug
Activity	The ED_{50} for this effect is < 1 ng/mL, measured by its ability to induce MC/9-2 cells proliferation. The specific activity of recombinant human IL-10 is approximately > 1 x 10^6 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 — IL10

Entrez GeneID	3586
Gene Name	IL10
Gene Alias	CSIF, IL-10, IL10A, MGC126450, MGC126451, TGIF
Gene Description	interleukin 10
Omim ID	124092 180300
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene is a cytokine produced primarily by monocytes and to a lesser extent by lymphocytes. This cytokine has pleiotropic effects in immunoregulation and inflammation . It down-regulates the expression of Th1 cytokines, MHC class II Ags, and costimulatory molecule s on macrophages. It also enhances B cell survival, proliferation, and antibody production. This cyt okine can block NF-kappa B activity, and is involved in the regulation of the JAK-STAT signaling pathway. Knockout studies in mice suggested the function of this cytokine as an essential immuno regulator in the intestinal tract. [provided by RefSeq
Other Designations	cytokine synthesis inhibitory factor

Pathway

- Allograft rejection
- Asthma
- Autoimmune thyroid disease
- Cytokine-cytokine receptor interaction
- Jak-STAT signaling pathway
- Systemic lupus erythematosus
- T cell receptor signaling pathway

Disease

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- Abortion
- Abscess
- Acidosis
- Acquired Immunodeficiency Syndrome
- Acute Disease
- Acute Lung Injury
- Adenocarcinoma
- Adenoma
- Adenomatous Polyps
- Adenovirus Infections
- Aggressive Periodontitis
- AIDS-Related Opportunistic Infections
- Albuminuria
- Alcoholism
- alpha 1-Antitrypsin Deficiency
- Alpha-1-antitrypsin deficiency
- Alphavirus Infections
- Alveolar Bone Loss
- Alveolitis
- Alzheimer disease
- Anemia
- Aneurysm
- Angina Pectoris
- Aortic Aneurysm
- Aortic Rupture

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- Aortic Valve Stenosis
- Appetite
- Arteriosclerosis
- Arthralgia
- Arthritis
- Aspergillosis
- Asthma
- Atherosclerosis
- Atrial Fibrillation
- Autoimmune Diseases
- Bacteremia
- Bacterial Infections
- Barrett Esophagus
- Behcet Syndrome
- Biliary Atresia
- Biliary Tract Neoplasms
- Bipolar Disorder
- Bone Marrow Diseases
- Boutonneuse Fever
- Brain Ischemia
- Breast cancer
- Breast Neoplasms
- Bronchial Hyperreactivity
- Bronchiolitis
- Bronchiolitis Obliterans
- Bronchitis

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- Bronchopneumonia
- Bronchopulmonary Dysplasia
- Brucellosis
- Burns
- Cachexia
- Cadaver
- Calcinosis
- Carcinoma
- Cardiovascular Diseases
- Carotid Artery Diseases
- Carotid Stenosis
- Celiac Disease
- Central Nervous System Neoplasms
- Cerebral Palsy
- Cerebrovascular Disorders
- Cervical Intraepithelial Neoplasia
- Chagas Cardiomyopathy
- Chagas Disease
- Chlamydia Infections
- Chorioamnionitis
- Choroidal Neovascularization
- Chronic Disease
- Chronic Periodontitis
- Churg-Strauss Syndrome
- Clonorchiasis
- Colitis

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- Colon cancer
- Colonic Neoplasms
- Colorectal Neoplasms
- Common Cold
- Common Variable Immunodeficiency
- Communicable Diseases
- Community-Acquired Infections
- Connective Tissue Diseases
- Constipation
- Corneal Ulcer
- Coronary Aneurysm
- Coronary Artery Disease
- Coronary Disease
- Coronary Restenosis
- Coronary Stenosis
- Critical Illness
- Crohn Disease
- Cystic fibrosis
- Cytomegalovirus Infections
- Cytomegalovirus Retinitis
- Delayed Graft Function
- Dengue Hemorrhagic Fever
- Dental Plaque
- Depressive Disorder
- Dermatitis
- Dermatomyositis

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- Diabetes
- Diabetes Complications
- Diabetes Mellitus
- Diabetic Nephropathies
- Diabetic Neuropathies
- Diarrhea
- Disease
- Disease Models
- Disease Progression
- Disease Susceptibility
- Down Syndrome
- Drug Hypersensitivity
- Ductus Arteriosus
- Duodenal Diseases
- Duodenal Ulcer
- Eclampsia
- Edema
- Embryo Loss
- Encephalitis
- Endometriosis
- Endotoxemia
- Enterocolitis
- Enterovirus Infections
- Epidermodysplasia Verruciformis
- Epilepsy
- Epstein-Barr Virus Infections

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- Erythema Nodosum
- Escherichia coli Infections
- Esophageal Neoplasms
- Esophagitis
- Eye Infections
- Fabry Disease
- Fallopian Tube Diseases
- Fatigue
- Fatigue Syndrome
- Fatty Liver
- Fetal Death
- Fetal Diseases
- Fetal Membranes
- Fever
- Fibrosis
- Food Hypersensitivity
- Gallbladder Diseases
- Gastritis
- Gastroenteritis
- Gastroesophageal Reflux
- Gastrointestinal Diseases
- Gender Identity
- Genetic Predisposition to Disease
- Gingival Hemorrhage
- Gingivitis
- Glomerulonephritis

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- Glomerulosclerosis
- Glucosephosphate Dehydrogenase Deficiency
- Graft vs Host Disease
- Graves Disease
- Graves Ophthalmopathy
- Guillain-Barre Syndrome
- Head and Neck Neoplasms
- Heart Diseases
- Heart Failure
- Heart Valve Diseases
- Helicobacter Infections
- Hematologic Diseases
- Hematologic Neoplasms
- Hemophilia A
- Hepatitis
- Hepatitis B
- Hepatitis C
- Hernia
- Herpes Simplex
- Herpes Zoster
- Herpesviridae Infections
- HIV Infections
- HIV Seropositivity
- Hodgkin Disease
- HTLV-I Infections
- Hypercholesterolemia

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- Hyperglycemia
- Hyperlipidemias
- Hyperparathyroidism
- Hypersensitivity
- Hypertension
- Hypertrophy
- Hyperuricemia
- Hypoxia
- Idiopathic Pulmonary Fibrosis
- IgA Deficiency
- Immune System Diseases
- Infant
- Infection
- Infectious Mononucleosis
- Infertility
- Inflammation
- Inflammatory Bowel Diseases
- Insulin Resistance
- Intervertebral Disk Displacement
- Intracranial Arteriosclerosis
- Inversion
- Irritable Bowel Syndrome
- Kidney Diseases
- Kidney Failure
- Kidney Neoplasms
- Leishmaniasis

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- Leprosy
- Leptospirosis
- Leukemia
- Lichen Planus
- Liver Cirrhosis
- Liver Diseases
- Liver Failure
- Liver Neoplasms
- Lung Diseases
- Lung Neoplasms
- Lupus Erythematosus
- Lupus Nephritis
- Lymphadenitis
- Lymphatic Metastasis
- Lymphocytosis
- Lymphoma
- Lymphoproliferative Disorders
- Macular Degeneration
- Malaria
- Malignant melanoma
- Malnutrition
- Melanoma
- Meningitis
- Meningococcal Infections
- Mental Disorders

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- Metabolic Syndrome X
- Metaplasia
- Migraine Disorders
- Mitral Valve Prolapse
- Mood Disorders
- Mouth Neoplasms
- Mucocutaneous Lymph Node Syndrome
- Multiple Myeloma
- Multiple Organ Failure
- Multiple Sclerosis
- Multiple System Atrophy
- Multiple Trauma
- Musculoskeletal Diseases
- Myasthenia Gravis
- Mycobacterium Infections
- Myelodysplastic Syndromes
- Myocardial Infarction
- Nasopharyngeal Neoplasms
- Neoplasm Invasiveness
- Neoplasm Metastasis
- Neoplasm Recurrence
- Neoplasms
- Neuropsychological Tests
- Obesity
- Obstetric Labor
- Occupational Diseases

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- Ophthalmia
- Oral Ulcer
- Osteoarthritis
- Osteolysis
- Osteoporosis
- Osteosarcoma
- Otitis Media
- Ovarian cancer
- Ovarian Neoplasms
- Pain
- Pancreatic cancer
- Pancreatic Neoplasms
- Pancreatitis
- Panic Disorder
- Papillomavirus Infections
- Paracoccidioidomycosis
- Paraparesis
- Parasitemia
- Parasitic Diseases
- Parkinson disease
- Parvoviridae Infections
- Pelvic Pain
- Pemphigoid
- Pemphigus
- Peptic Ulcer
- Periapical Periodontitis

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- Periodontal Attachment Loss
- Periodontal Diseases
- Periodontal Pocket
- Periodontitis
- Peripheral Vascular Diseases
- Picornaviridae Infections
- Pneumonia
- Polyarteritis Nodosa
- Polycystic Ovary Syndrome
- Postoperative Complications
- Precancerous Conditions
- Pre-Eclampsia
- Pregnancy Complications
- Premature Birth
- Prostate cancer
- Prostatic Hyperplasia
- Prostatic Neoplasms
- Prostatitis
- Prosthesis Failure
- Pseudolymphoma
- Pseudomonas Infections
- Psoriasis
- Psychiatric Status Rating Scales
- Puerperal Disorders
- Pulmonary Disease
- Pulmonary Fibrosis

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- Purpura
- Q Fever
- Radiation Injuries
- Radiation Pneumonitis
- Recurrence
- Renal Artery Obstruction
- Renal Insufficiency
- Reperfusion Injury
- Respiratory Distress Syndrome
- Respiratory Hypersensitivity
- Respiratory Syncytial Virus Infections
- Respiratory Tract Infections
- Retinal Artery Occlusion
- Retinal Diseases
- Retinal Vein Occlusion
- Rheumatic Heart Disease
- Rhinitis
- Salmonella Infections
- Sarcoidosis
- Sarcoma
- Schistosomiasis mansoni
- Schizophrenia
- Sciatica
- Scleroderma
- Seizures
- Seminoma

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- Sepsis
- Severe Acute Respiratory Syndrome
- Severe combined immunodeficiency
- Shock
- Silicosis
- Sinusitis
- Skin Diseases
- Skin Neoplasms
- Skin Ulcer
- Spinal Cord Diseases
- Spondylitis
- Stomach Diseases
- Stomach Neoplasms
- Stomach Ulcer
- Stomatitis
- Streptococcal Infections
- Stress
- Stroke
- Subacute Sclerosing Panencephalitis
- Substance-Related Disorders
- Sudden Infant Death
- Syndrome
- Systemic Inflammatory Response Syndrome
- Systemic Vasculitis
- Temporal Arteritis
- Testicular Neoplasms

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- Thoracic Neoplasms
- Thromboembolism
- Thrombosis
- Thymoma
- Thymus Neoplasms
- Thyroid Diseases
- Thyroid Neoplasms
- Tooth Diseases
- Trachoma
- Translocation
- Trypanosomiasis
- Tuberculosis
- Uremia
- Urinary Bladder Neoplasms
- Uterine Cervical Incompetence
- Uterine Cervical Neoplasms
- Uterine Diseases
- Uveitis
- Vaginal Diseases
- Vaginosis
- Vascular Diseases
- Vasculitis
- Venous Thrombosis
- Viremia
- Vitiligo
- Waldenstrom Macroglobulinemia

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- Wegener Granulomatosis
- Werner syndrome
- Wounds and Injuries

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