Bioactive

IL4 (Human) Recombinant Protein

Catalog # P7266 Size 10 ug

Applications

Result of activity analysis

Result of activity analysis

Specification

Product Description	Human IL4 (P05112, 25 a.a.- 153 a.a.) partial recombinant protein expressed in CHO cells.
Sequence	HKCDITLQEIIKTLNSLTEQKTLCTELTVTDIFAASKNTTEKETFCRAATVLRQFYSHHEKDTRCLGA TAQQFHRHKQLIRFLKRLDRNLWGLAGLNSCPVKEANQSTLENFLERLKTIMREKYSKCSS
Host	Mammals
Theoretical MW (kDa)	15
Form	Lyophilized
Preparation Method	Mammalian cell (CHO) expression system
Purity	> 95% as analyzed by SDS-PAGE. > 95% as analyzed by HPLC.
Endotoxin Level	< 0.2 EU/ug of protein(gel clotting method)
Activity	ED_{50} < 0.25 ng/mL, measured in a cell proliferation assay using TF-1 human erythroleukemic cells, corresponding to a specific activity of > 4.0×10^6 units/mg.
Recommend Usage	Biological Activity SDS-PAGE The optimal working dilution should be determined by the end user.

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Storage Buffer	Lyophilized from PBS. Reconstitute the lyophilized powder in ddH_2O up to 100 ug/mL.
Storage Instruction	Store at 4°C to 8°C for 1 week. For long term storage store at -20°C to -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Result of activity analysis Result of activity analysis

Applications

- Functional Study
- SDS-PAGE

Gene Info — IL4

Entrez GeneID	3565
Protein Accession#	P05112
Gene Name	IL4
Gene Alias	BCGF-1, BCGF1, BSF1, IL-4, MGC79402
Gene Description	interleukin 4
Omim ID	147780
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene is a pleiotropic cytokine produced by activated T cells. This cyt okine is a ligand for interleukin 4 receptor. The interleukin 4 receptor also binds to IL13, which ma y contribute to many overlapping functions of this cytokine and IL13. STAT6, a signal transducer a nd activator of transcription, has been shown to play a central role in mediating the immune regula tory signal of this cytokine. This gene, IL3, IL5, IL13, and CSF2 form a cytokine gene cluster on ch romosome 5q, with this gene particularly close to IL13. This gene, IL13 and IL5 are found to be re gulated coordinately by several long-range regulatory elements in an over 120 kilobase range on t he chromosome. Two alternatively spliced transcript variants of this gene encoding distinct isofor ms have been reported. [provided by RefSeq
Other Designations	B cell growth factor 1|B_cell stimulatory factor 1|lymphocyte stimulatory factor 1

Pathway

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- Allograft rejection
- Asthma
- Autoimmune thyroid disease
- Cytokine-cytokine receptor interaction
- Fc epsilon RI signaling pathway
- Hematopoietic cell lineage
- Jak-STAT signaling pathway
- T cell receptor signaling pathway

Disease

- Abortion
- Acquired Immunodeficiency Syndrome
- Acute Disease
- Adenocarcinoma
- Aggressive Periodontitis
- AIDS Dementia Complex
- Albuminuria
- Alcoholism
- Alveolar Bone Loss
- Alveolitis
- Alzheimer disease
- Arthritis
- Asthma
- Atherosclerosis
- Autoimmune Diseases
- Bacteremia

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- Biliary Tract Neoplasms
- Bone Diseases
- Brain Ischemia
- Brain Neoplasms
- Breast cancer
- Breast Neoplasms
- Bronchial Hyperreactivity
- Bronchiolitis
- Bronchopulmonary Dysplasia
- Brucellosis
- Cadaver
- Calcinosis
- Candidiasis
- Carcinoma
- Cardiomyopathy
- Cardiovascular Diseases
- Celiac Disease
- Central Nervous System Neoplasms
- Cerebral Infarction
- Cerebrovascular Accident
- Chagas Disease
- Chlamydia Infections
- Cholecystolithiasis
- Choledocholithiasis
- Chorioamnionitis
- Chronic Disease

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- Chronic Periodontitis
- Cognition Disorders
- Colitis
- Colon cancer
- Colonic Neoplasms
- Colorectal Neoplasms
- Common Variable Immunodeficiency
- Communicable Diseases
- Conjunctivitis
- Connective Tissue Diseases
- Constriction
- Coronary Artery Disease
- Coronary Disease
- Crohn Disease
- Cystitis
- Dengue
- Dental Plaque
- Dermatitis
- Dermatomyositis
- Diabetes Complications
- Diabetes Mellitus
- Disease Progression
- Disease Susceptibility
- Drug Hypersensitivity
- Ductus Arteriosus
- Edema

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- Endometriosis
- Enterocolitis
- Epidermal Necrolysis
- Epilepsy
- Esophageal Neoplasms
- Esophagitis
- Fatigue Syndrome
- Fetal Diseases
- Fetal Membranes
- Fibromyalgia
- Food Hypersensitivity
- Gastritis
- Genetic Predisposition to Disease
- Gingival Hemorrhage
- Glioblastoma
- Glioma
- Glomerulonephritis
- Gout
- Graft vs Host Disease
- Graves Disease
- Graves Ophthalmopathy
- Hashimoto Disease
- Helicobacter Infections
- Hematologic Diseases
- Hemophilia A
- Hepatitis

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- Hepatitis B
- Hepatitis C
- Herpesviridae Infections
- Histiocytosis
- HIV Infections
- Hodgkin Disease
- Hyperglycemia
- Hyperparathyroidism
- Hypersensitivity
- Hypertension
- Idiopathic Pulmonary Fibrosis
- Infant
- Infection
- Inflammation
- Inflammatory Bowel Diseases
- Intervertebral Disk Displacement
- Inversion
- Irritable Bowel Syndrome
- Kidney Diseases
- Kidney Failure
- Kidney Neoplasms
- Leiomyoma
- Leishmaniasis
- Leptospirosis
- Leukemia
- Lichen Planus

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- Liver Cirrhosis
- Liver Diseases
- Liver Neoplasms
- Lung Diseases
- Lung Neoplasms
- Lupus Erythematosus
- Lymphatic Metastasis
- Lymphoma
- Lymphoproliferative Disorders
- Malaria
- Malignant melanoma
- Melanoma
- Meningococcal Infections
- Mental Disorders
- Metabolic Syndrome X
- Metaplasia
- Migraine Disorders
- Mitral Valve Prolapse
- Mouth Neoplasms
- Mucocutaneous Lymph Node Syndrome
- Multiple Myeloma
- Multiple Organ Failure
- Multiple Sclerosis
- Multiple Trauma
- Musculoskeletal Diseases
- Myocardial Infarction

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- Myocardial Ischemia
- Myositis
- Nasal Polyps
- Neoplasm Invasiveness
- Neoplasms
- Nephrosis
- Nephrotic Syndrome
- Neuropsychological Tests
- Obesity
- Obstetric Labor
- Occupational Diseases
- Osteoarthritis
- Osteolysis
- Osteomyelitis
- Osteoporosis
- Otitis Media
- Pain
- Pancreatic cancer
- Pancreatic Neoplasms
- Paracoccidioidomycosis
- Parasitemia
- Parasitic Diseases
- Parkinson disease
- Pemphigoid
- Pemphigus

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- Peptic Ulcer
- Periodontal Attachment Loss
- Periodontal Pocket
- Periodontitis
- Placenta Diseases
- Polymyositis
- Postoperative Complications
- Precancerous Conditions
- Pre-Eclampsia
- Pregnancy Complications
- Premature Birth
- Prenatal Exposure Delayed Effects
- Prostate cancer
- Prostatic Hyperplasia
- Prostatic Neoplasms
- Prosthesis Failure
- Psoriasis
- Psychiatric Status Rating Scales
- Pulmonary Disease
- Pulmonary Fibrosis
- Purpura
- Q Fever
- Radiation Injuries
- Radiation Pneumonitis
- Recurrence
- Respiratory Hypersensitivity

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- Respiratory Sounds
- Respiratory Syncytial Virus Infections
- Retinal Vein Occlusion
- Rheumatic Heart Disease
- Rhinitis
- Sarcoidosis
- Sarcoma
- Schistosomiasis japonica
- Schistosomiasis mansoni
- Schizophrenia
- Sciatica
- Scleroderma
- Seizures
- Sepsis
- Severe Acute Respiratory Syndrome
- Shock
- Skin Diseases
- Skin Neoplasms
- Skin Ulcer
- Spondylitis
- Staphylococcal Infections
- Stevens-Johnson Syndrome
- Stomach Neoplasms
- Stroke
- Subacute Sclerosing Panencephalitis
- Sudden Infant Death

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- Temporal Arteritis
- Thoracic Neoplasms
- Trachoma
- Trypanosomiasis
- Tuberculosis
- Urinary Bladder Neoplasms
- Urticaria
- Uterine Neoplasms
- Vaginosis
- Viremia
- Vitiligo
- Waldenstrom Macroglobulinemia
- Werner syndrome

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