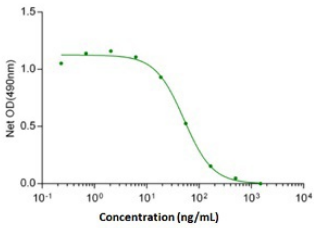
Bioactive HuPro®

IL4R (Human) Recombinant Protein

Catalog # P7408 Size 10 ug

Applications



Result of activity analysis

Result of activity analysis

Specification

Product Description	Human IL4R (P24394, 24 a.a. - 232 a.a.) partial recombinant protein expressed in HEK293 cells.
Sequence	GNMKVLQEPTCVSDYMSISTCEWKMNGPTNCSTELRLLYQLVFLLSEAHTCIPENNGGAGCVCHL LMDDVVSADNYTLDLWAGQQLLWKGSFKPSEHVKPRAPGNLTVHTNVSDTLLLTWSNPYPPDN YLYNHLTYAVNIWSENDPADFRIYNVTYLEPSLRIAASTLKSGISYRARVRAWAQCYNTTWSEWSPS TKWHNSYREPFEQH
Host	Human
Theoretical MW (kDa)	40 ~ 45
Form	Lyophilized
Preparation Method	Mammalian cell (HEK 293) 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} < 70.0 ng/mL, measured in a neutralization assay using TF-1 cells in the presence of 0.5 ng/mL h-IL-4.

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Recommend Usage	Biological Activity SDS-PAGE The optimal working dilution should be determined by the end user.
Storage Buffer	Lyophilized from PBS. Reconstitute the lyophilized powder in ddH_2O or PBS up to 100 ug/mL.
Storage Instruction	Store at 4°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 — IL4R

Entrez GeneID	3566
Protein Accession#	P24394
Gene Name	IL4R
Gene Alias	CD124, IL4RA
Gene Description	interleukin 4 receptor
Omim ID	147050 147781 609423
Gene Ontology	Hyperlink
Gene Summary	This gene encodes the alpha chain of the interleukin-4 receptor, a type I transmembrane protein th at can bind interleukin 4 and interleukin 13 to regulate IgE production. The encoded protein also c an bind interleukin 4 to promote differentiation of Th2 cells. A soluble form of the encoded protein can be produced by an alternate splice variant or by proteolysis of the membrane-bound protein, and this soluble form can inhibit IL4-mediated cell proliferation and IL5 upregulation by T-cells. All elic variations in this gene have been associated with atopy, a condition that can manifest itself as allergic rhinitis, sinusitus, asthma, or eczema. Two transcript variants encoding different isoforms, a membrane-bound and a soluble form, have been found for this gene. [provided by RefSeq
Other Designations	OTTHUMP00000122506|interleukin 4 receptor alpha chain|interleukin-4 receptor alpha chain

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Pathway

- Cytokine-cytokine receptor interaction
- Hematopoietic cell lineage
- Jak-STAT signaling pathway

Disease

- Acquired Immunodeficiency Syndrome
- Acute Disease
- Adenocarcinoma
- Albuminuria
- Alveolar Bone Loss
- Alveolitis
- Alzheimer Disease
- Anemia
- Arthritis
- Asthma
- Atherosclerosis
- Bacterial Infections
- Blood Coagulation Disorders
- Brain Ischemia
- Brain Neoplasms
- Breast cancer
- Breast Neoplasms
- Bronchiolitis
- Cadaver
- Carcinoma

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- Cardiovascular Diseases
- Carotid Stenosis
- Celiac Disease
- Central Nervous System Neoplasms
- Cerebrovascular Accident
- Chlamydia Infections
- Chorioamnionitis
- Chronic Disease
- Colon cancer
- Colorectal Neoplasms
- Common Cold
- Conjunctivitis
- Connective Tissue Diseases
- Constriction
- Coronary Artery Disease
- Coronary Disease
- Critical Illness
- Cystic fibrosis
- Cystitis
- Deafness
- Dermatitis
- Diabetes Mellitus
- Disease Progression
- Drug Hypersensitivity
- Eczema
- Edema

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- Encephalomyelitis
- Enterocolitis
- Eosinophilia
- Epidermal Necrolysis
- Esophageal Neoplasms
- Esophagitis
- Fetal Diseases
- Fetal Membranes
- Fibrosis
- Food Hypersensitivity
- Gastritis
- Genetic Predisposition to Disease
- Glioblastoma
- Glioma
- Glomerulonephritis
- Graft vs Host Disease
- Graves Disease
- Hearing Loss
- Helicobacter Infections
- Hematologic Diseases
- Hepatitis
- Hepatitis B
- Hepatitis C
- HIV Infections
- Hodgkin Disease
- Hyperparathyroidism

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- Hypersensitivity
- Hypertension
- Idiopathic Pulmonary Fibrosis
- Infant
- Infection
- Inflammation
- Inflammatory Bowel Diseases
- Intervertebral Disk Displacement
- Kidney Diseases
- Kidney Failure
- Kidney Neoplasms
- Leptospirosis
- Liver Cirrhosis
- Liver Diseases
- Lung Diseases
- Lung Neoplasms
- Lupus Erythematosus
- Lymphoma
- Lymphoproliferative Disorders
- Malaria
- Malignant melanoma
- Measles
- Melanoma
- Mental Disorders
- Metaplasia
- Migraine Disorders

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- Multiple Myeloma
- Multiple Sclerosis
- Mumps
- Musculoskeletal Diseases
- Myocardial Infarction
- Neoplasm Metastasis
- Nephrosis
- Nephrotic Syndrome
- Nervous System Diseases
- Neuropsychological Tests
- Obesity
- Obstetric Labor
- Occupational Diseases
- Osteoarthritis
- Osteolysis
- Osteoporosis
- Ovarian cancer
- Pain
- Pancreatic cancer
- Pancreatic Neoplasms
- Pemphigoid
- Pemphigus
- Periodontitis

- Postoperative Complications
- Precancerous Conditions

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- Pre-Eclampsia
- Pregnancy Complications
- Premature Birth
- Prenatal Exposure Delayed Effects
- Prosthesis Failure
- Psoriasis
- Pulmonary Disease
- Radiation Injuries
- Radiation Pneumonitis
- Recurrence
- Respiratory Hypersensitivity
- Respiratory Sounds
- Respiratory Syncytial Virus Infections
- Rheumatoid Nodule
- Rhinitis
- Rubella
- Sarcoidosis
- Schizophrenia
- Sciatica
- Scleroderma
- Sepsis
- Shock
- Skin Diseases
- Skin Neoplasms
- Skin Ulcer
- Stevens-Johnson Syndrome

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- Stomach Neoplasms
- Stroke
- Subacute Sclerosing Panencephalitis
- Trachoma
- Urinary Bladder Neoplasms
- Urticaria
- Uterine Cervical Neoplasms
- Vaginosis
- Waldenstrom Macroglobulinemia
- Werner syndrome
- Wounds and Injuries

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