

Bioactive

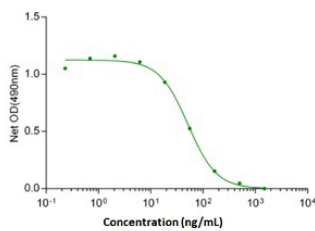
HuPro®

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	GNMKVLQEPTCVSDYMSISTCEWKMNPTNCSTELRLLYQLVFLSEAHTCIPENNGGAGCVCHL LMDDVVSADNYTLDLWAGQQLLWKGSEHVKPRAPGNLTVHTNVSDTLLLTWSNPYPDN LYNHLTYAVNWSSENDPADFRINVTYLEPSLRIAASTLKSGISYRARVRAWAQCYNNTWSEWSPS 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.

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 ddH₂O 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 that can bind interleukin 4 and interleukin 13 to regulate IgE production. The encoded protein also can 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, sinusitis, 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

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](#)

- [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](#)

- [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](#)

- [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](#)

- [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](#)

- [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](#)

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