Bioactive

IL5 (Human) Recombinant Protein

Catalog # P8278 Size 2 x 10 ug

Specification

Product Description	Human IL5 (P05113, 20 a.a. - 134 a.a.) partial recombinant protein with His tag at C-terminus expressed in Sf9 cells.
Sequence	ADPIPTEIPTSALVKETLALLSTHRTLLIANETLRIPVPVHKNHQLCTEEIFQGIGTLESQTVQGGTVERLFKNLSLIKKYIDGQKKKCGEERRRVNQFLDYLQEFLGVMNTEWIIESHHHHHH
Host	insect
Theoretical MW (kDa)	14.2
Form	Liquid
Preparation Method	Sf9 cell expression system
Purity	> 90% by SDS-PAGE
Activity	The ED_{50} is < 1.5 ng/mL, measured in a cell proliferation assay using TF-1 human erythroleukemic cell.
Recommend Usage	Biological Activity SDS-PAGE The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS pH 7.4 (10% glycerol)
Storage Instruction	Store at 2°C to 8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C. Aliquot to avoid repeated freezing and thawing.

Applications

- Functional Study
- SDS-PAGE

Gene Info — IL5

Entrez GeneID	3567
Protein Accession#	P05113
Gene Name	IL5
Gene Alias	EDF, IL-5, TRF
Gene Description	interleukin 5 (colony-stimulating factor, eosinophil)
Omim ID	147850
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene is a cytokine that acts as a growth and differentiation factor for both B cells and eosinophils. This cytokine is a main regulator of eosinopoiesis, eosinophil matur ation and activation. The elevated production of this cytokine is reported to be related to asthma o r hypereosinophilic syndromes. The receptor of this cytokine is a heterodimer, whose beta subunit is shared with the receptors for interleukine 3 (IL3) and colony stimulating factor 2 (CSF2/GM-CS F). This gene, together with those for interleukin 4 (IL4), interleukin 13 (IL13), and CSF2, form a cy tokine gene cluster on chromosome 5. This cytokine, IL4, and IL13 are found to be regulated coor dinately by long-range regulatory elements spread over 120 kilobases on chromosome 5q31. [pro vided by RefSeq
Other Designations	B cell differentiation factor I|OTTHUMP00000065830|T-cell replacing factor|eosinophil differentiati on factor|interleukin 5|interleukin-5

Pathway

- 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

- Adenocarcinoma
- Asthma
- Bacteremia
- Biliary Tract Neoplasms
- Breast Neoplasms
- Bronchial Hyperreactivity
- Bronchiolitis
- Carcinoma
- Cardiovascular Diseases
- Celiac Disease
- Chorioamnionitis
- Colitis
- Connective Tissue Diseases
- Crohn Disease
- Dermatitis
- Diabetes Mellitus
- Ductus Arteriosus
- Edema
- Eosinophilia
- Esophageal Neoplasms
- Fetal Diseases
- Fetal Membranes
- Genetic Predisposition to Disease
- Helicobacter Infections

- Helminthiasis
- Hematologic Diseases
- Hodgkin Disease
- Hypersensitivity
- Hypertension
- Infant
- Infection
- Inflammation
- Inflammatory Bowel Diseases
- Kidney Failure
- Lung Neoplasms
- Lupus Erythematosus
- Lymphoma
- Lymphoproliferative Disorders
- Malaria
- Multiple Myeloma
- Multiple Sclerosis
- Musculoskeletal Diseases
- Nasal Polyps
- Obstetric Labor
- Occupational Diseases
- Pain
- Pre-Eclampsia
- Pregnancy Complications
- Premature Birth
- Prostatic Neoplasms

- Respiratory Syncytial Virus Infections
- Rhinitis
- Schistosomiasis japonica
- Schizophrenia
- Skin Diseases
- Stomach Neoplasms
- Waldenstrom Macroglobulinemia
- Werner syndrome