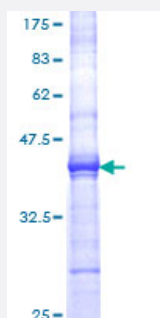


IL5 (Human) Recombinant Protein (Q01)

Catalog # H00003567-Q01

Size 25 ug, 10 ug

Applications



Specification

Product Description	Human IL5 partial ORF (NP_000870, 20 a.a. - 134 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	IPTEPTSALVKETLALLSTHRTLLIANETLRIPVPVHKNHQLCTEEIFQGIGTLESQTVQGGTVERLFKNLSLIKKYIDGQKKKCGEERRRVNQFLDYLQEFLGVMNTEWIIES
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	38.39
Preparation Method	in vitro wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — IL5

Entrez GeneID [3567](#)

GeneBank Accession# [NM_000879](#)

Protein Accession# [NP_000870](#)

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 maturation and activation. The elevated production of this cytokine is reported to be related to asthma or 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-CSF). This gene, together with those for interleukin 4 (IL4), interleukin 13 (IL13), and CSF2, form a cytokine gene cluster on chromosome 5. This cytokine, IL4, and IL13 are found to be regulated coordinately by long-range regulatory elements spread over 120 kilobases on chromosome 5q31. [provided by RefSeq]

Other Designations

B cell differentiation factor [OTTHUMP00000065830]T-cell replacing factor[eosinophil differentiation 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](#)