

Bioactive

IL3 (Human) Recombinant Protein

Catalog # P8257

Size 50 ug

Specification

Product Description	Human IL3 (P08700, 20 a.a. - 152 a.a.) partial recombinant protein with His tag at N-terminus expressed in <i>Escherichia coli</i> .
Sequence	MGSSHHHHHHSSGLVPRGSHMAPMTQTSLKTSWVNCNMIIDEITHLKQPPLPLDFFNNLNGED QDILMENNLRPNLEAFNRAVKSLQNASAIESILKNLLPCLPLATAAPTRHPIHIKDGDWNEFRRL TFYKLTLENAQAQQTTLSLAIF
Host	<i>Escherichia coli</i>
Theoretical MW (kDa)	17.3
Form	Liquid
Preparation Method	<i>Escherichia coli</i> expression system
Purity	> 90% by SDS-PAGE
Activity	The ED ₅₀ is < 0.53 ng/mL, measured in a cell proliferation assay using TF1 human erythroleukemic cells.
Recommend Usage	Biological Activity SDS-PAGE The optimal working dilution should be determined by the end user.
Storage Buffer	In 20mM Tris-HCl buffer pH 8.0 (0.2mM PMSF, 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 — IL3

Entrez GeneID [3562](#)

Protein Accession# [P08700](#)

Gene Name IL3

Gene Alias IL-3, MCGF, MGC79398, MGC79399, MULTI-CSF

Gene Description interleukin 3 (colony-stimulating factor, multiple)

Omim ID [147740](#)

Gene Ontology [Hyperlink](#)

Gene Summary The protein encoded by this gene is a potent growth promoting cytokine. This cytokine is capable of supporting the proliferation of a broad range of hematopoietic cell types. It is involved in a variety of cell activities such as cell growth, differentiation and apoptosis. This cytokine has been shown to also possess neurotrophic activity, and it may be associated with neurologic disorders. [provided by RefSeq]

Other Designations P-cell stimulating factor|hematopoietic growth factor|interleukin 3|mast-cell growth factor|multilineage-colony-stimulating factor

Pathway

- [Apoptosis](#)
- [Asthma](#)
- [Cytokine-cytokine receptor interaction](#)
- [Fc epsilon RI signaling pathway](#)
- [Hematopoietic cell lineage](#)
- [Jak-STAT signaling pathway](#)

Disease

- [Adenocarcinoma](#)
- [Alzheimer disease](#)

- [Arthritis](#)
- [Asthma](#)
- [Bronchial Hyperreactivity](#)
- [Bronchiolitis](#)
- [Cardiovascular Diseases](#)
- [Celiac Disease](#)
- [Chorioamnionitis](#)
- [Diabetes Complications](#)
- [Diabetes Mellitus](#)
- [Edema](#)
- [Esophageal Neoplasms](#)
- [Fetal Membranes](#)
- [Genetic Predisposition to Disease](#)
- [Graves Disease](#)
- [Hyperparathyroidism](#)
- [Hypersensitivity](#)
- [Hypertension](#)
- [Infant](#)
- [Kidney Failure](#)
- [Lung Neoplasms](#)
- [Lymphoma](#)
- [Malaria](#)
- [Metabolic Syndrome X](#)
- [Multiple Sclerosis](#)
- [Neoplasms](#)
- [Obstetric Labor](#)

- [Osteoporosis](#)
- [Pre-Eclampsia](#)
- [Pregnancy Complications](#)
- [Premature Birth](#)
- [Pulmonary Disease](#)
- [Respiratory Syncytial Virus Infections](#)
- [Rhinitis](#)
- [Schizophrenia](#)
- [Thyroid Neoplasms](#)
- [Urinary Bladder Neoplasms](#)
- [Werner syndrome](#)