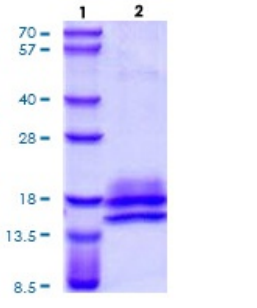
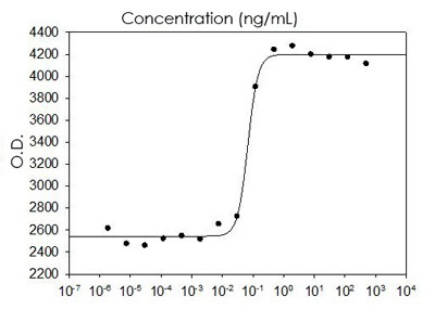
Bioactive

IL3 (Human) Recombinant Protein

Catalog # P7976 Size 20 ug

Applications





Result of bioactivity analysis

Result of bioactivity analysis

Specification

Product Description	Human IL3 (P08700, 20 a.a. - 152 a.a.) partial length recombinant protein with His tag expressed in Baculovirus expression system.
Sequence	APMTQTTPLKTSWVNCSNMIDEIITHLKQPPLPLLDFNNLNGEDQDILMENNLRRPNLEAFNRAVK SLQNASAIESILKNLLPCLPLATAAPTRHPIHIKDGDWNEFRRKLTFYLKTLENAQAQQTTLSLAIF
Host	Viruses
Theoretical MW (kDa)	16.1
Form	Liquid
Preparation Method	Baculovirus expression system

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Purity	> 90% by SDS-PAGE
Endotoxin Level	< 1 EU per 1 ug of protein (determined by LAL method)
Activity	ED_{50} is < 0.2 ng/mL, measured in a cell proliferation assay using TF-1 human erythroleukemic cells.
Quality Control Testing	3 ug by SDS-PAGE under reducing condition and visualized by Coomassie blue stain.
Storage Buffer	In Phosphate-Buffer Saline 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.
Note	Result of bioactivity analysis Result of bioactivity analysis

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 variet y 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. [provid ed by RefSeq
Other Designations	P-cell stimulating factor|hematopoietic growth factor|interleukin 3|mast-cell growth factor|multilinea ge-colony-stimulating factor

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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

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- 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

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