

Bioactive

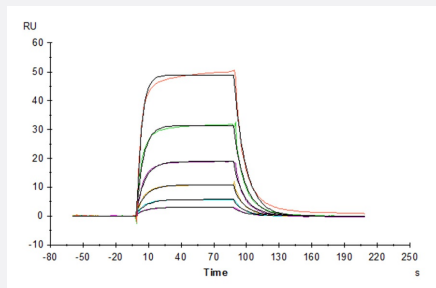
HuPro®

IL3 (Human) Recombinant Protein

Catalog # P9880

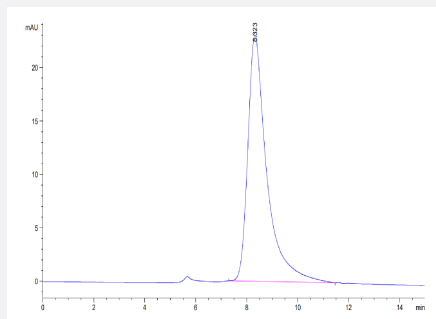
Size 100 ug

Applications



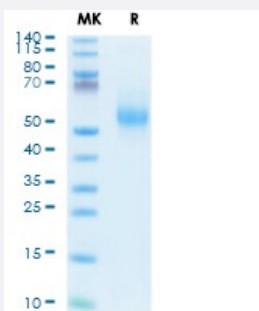
Surface Plasmon Resonance

Human IL-3, hFc Tag captured on CM5 Chip via Protein A can bind Human IL-3 R alpha, His Tag with an affinity constant of 0.276 uM as determined in SPR assay (Biacore T200).



SEC-HPLC

The purity of Human IL-3 is greater than 95% as determined by SEC-HPLC.



Tris-Bis PAGE

Human IL-3 on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

Specification

Product Description

Human IL3 (P08700, Ala20-Phe152) partial recombinant protein with hFc tag at C-Terminus expressed in HEK293 cells.

Sequence	Ala20-Phe152
Host	Human
Theoretical MW (kDa)	41.6
Form	Lyophilized
Preparation Method	Mammalian cell (HEK293) expression system
Purity	> 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC
Endotoxin Level	< 1 EU per 1 ug of protein (determined by LAL method)
Activity	The affinity constant of 0.276 uM as determined in SPR assay (Biacore T200).
Quality Control Testing	SEC-HPLC and Tris-Bis PAGE SEC-HPLC The purity of Human IL-3 is greater than 95% as determined by SEC-HPLC. Tris-Bis PAGE Human IL-3 on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.
Recommend Usage	Biological Activity SDS-PAGE SPR The optimal working dilution should be determined by the end user.
Storage Buffer	Lyophilized from sterile distilled Water is > 100 ug/mL
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

Applications

- Functional Study

- SDS-PAGE

- Surface Plasmon Resonance

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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](#)