Interleukin-3 (IL3) Human Active Protein

PRODUCT OVERVIEW

Product Name	Interleukin-3 (IL3), Active Protein
Full Product Name	Recombinant Human Interleukin-3 (IL3)(Active)
Product Gene Name	IL3 active protein
Product Synonym Gene Name	IL-3
Product Synonym Names	Interleukin-3; IL-3; Hematopoietic Growth Factor; Mast Cell Growth Factor; MCGF; Multipotential Colony-Stimulating Factor; P-Cell-Stimulating Factor; IL3
Sequence	APMTQTTPLK TSWVNCSNMI DEIITHLKQP PLPLLDFNNL NGEDQDILME NNLRRPNLEA FNRAVKSLQN ASAIESILKN LLPCLPLATA APTRHPIHIK DGDWNEFRRK LTFYLKTLEN AQAQQTTLSL AIF
Host	Mammalian Cell
Form/Format	Lyophilized powder; Lyophilized from a 0.2um filtered solution containing PBS, 5% mannitoland 0.01% Tween 80, pH 7.4
Purity/Purification	Greater than 95% as determined by SDS-PAGE. (lot specific)
Preparation and Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20 degree C/-80 degree C. The shelf life of lyophilized form is 12 months at -20 degree C/-80 degree C. Notes: Repeated freezing and thawing is not recommended. Store working aliquots at 4 degree C for up to one week.
Molecular Weight	17,233 Da
Chromosome Location	Chromosome: 5; NC_000005.9 (131396347..131398896). Location: 5q31.1
OMIM	147740
3D Structure	ModBase 3D Structure for P08700
Active Protein Note	Protein activity can be an ambiguous term. Please refer to the data sheet or inquire with Technical Support to determine the definition of activity for this product.
Species	Homo sapiens (Human)
Tag	Tag free
Endotoxin	<=10EU/mg by the LAL method
Biological Activity	Measured in a cell proliferation assay using TF-1 human erythroleukemic cells. The ED50 for this effect is 0.02-0.1ng/mL.
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL.We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20 degree C/-80 degree C. Our default final concentration of glycerol is 50%. Customers could use it as reference.
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for IL3 active protein	MBS9021231 is an active protein targeting IL3. Also known as Recombinant Human Interleukin-3 (IL3)(Active). Host: Mammalian Cell.
Other Notes	Small volumes of IL3 active protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for IL3. It may not necessarily be applicable to this product.

NCBI GI #	3002475
NCBI GeneID	3562
NCBI Accession #	AAC08706.1
UniProt Primary Accession #	P08700
UniProt Secondary Accession #	Q6GS87
UniProt Related Accession #	P08700
NCBI Official Full Name	IL-3
NCBI Official Synonym Full Names	interleukin 3 (colony-stimulating factor, multiple)
NCBI Official Symbol	IL3
NCBI Official Synonym Symbols	IL-3; MCGF; MULTI-CSF
UniProt Protein Name	Interleukin-3
UniProt Synonym Protein Names	Hematopoietic growth factor; Mast cell growth factor; MCGF; Multipotential colony-stimulating factor; P-cell-stimulating factor
Protein Family	Interleukin
UniProt Gene Name	IL3
UniProt Synonym Gene Names	IL-3; MCGF
UniProt Entry Name	IL3_HUMAN
NCBI Protein Information	interleukin-3; mast cell growth factor; mast-cell growth factor; P-cell stimulating factor; P-cell-stimulating factor; hematopoietic growth factor; multilineage-colony-stimulating factor; multipotential colony-stimulating factor
NCBI Summary for IL3	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, Jul 2008]
UniProt Comments for IL3	IL3: Granulocyte/macrophage colony-stimulating factors are cytokines that act in hematopoiesis by controlling the production, differentiation, and function of 2 related white cell populations of the blood, the granulocytes and the monocytes-macrophages. Belongs to the IL-3 family. Protein type: Cytokine; Oncoprotein; Apoptosis; Secreted; Secreted, signal peptide; Cell cycle regulation Chromosomal Location of Human Ortholog: 5q31.1 Cellular Component: extracellular space; extracellular region Molecular Function: interleukin-3 receptor binding; growth factor activity; cytokine activity Biological Process: nervous system development; positive regulation of peptidyl-tyrosine phosphorylation; positive regulation of tyrosine phosphorylation of Stat5 protein; cell-cell signaling; embryonic hemopoiesis; cytokine and chemokine mediated signaling pathway; positive regulation of cell proliferation; immune response; positive regulation of myeloid leukocyte differentiation; positive regulation of DNA replication
Research Articles on IL3	**1.** Genetic variation in the IL3 promoter affects human brain volume by regulating proliferation and survival of neural progenitors.

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