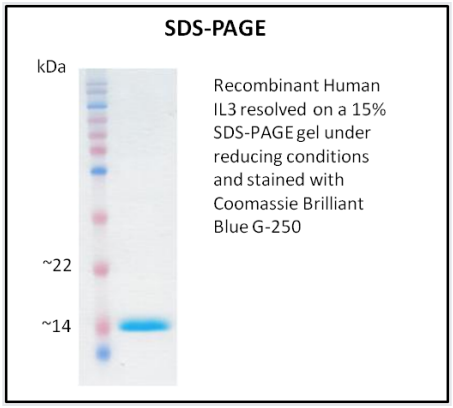
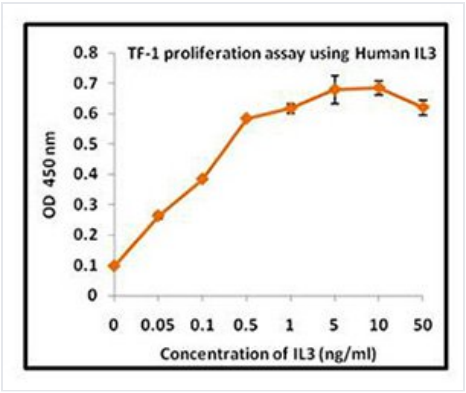
IL3 Human Active Protein

PRODUCT OVERVIEW

Product Name	IL3, Active Protein
Full Product Name	Recombinant Human IL3
Product Gene Name	IL3 active protein
Product Synonym Names	IL-3; Mast cell growth factor; MCGF; Multi-CSF; Hematopoietic growth factor; HCGF; P-cell stimulation factor; Recombinant Human Interleukin-3 (IL3)
Host	E Coli
Form/Format	Lyophilized from a 0.2 um filtered solution in Phosphate Buffer and NaCl (pH 6.3)
Purity/Purification	>95% as determined by SDS-PAGE
Preparation and Storage	The lyophilized protein is stable for at least one year from date of receipt at-70 degree C. Upon reconstitution, this cytokine can be stored in working aliquots at 2-8 degree C for one month, or at-20 degree C for six months, with a carrier protein without detectable loss of activity. Avoid repeated freeze/thaw cycles.
Molecular Weight	15.0 kDa
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.
Bioactivity	The ED50 as determined by the dose-dependent proliferation of Human TF-1 cells was found less than 0.5 ng/mL
Endotoxin Level	<1.0 EU/ug of recombinant protein as determined by the LAL method
Reconstitution	A quick spin of the vial followed by reconstitution in distilled water to a concentration not less than 0.1 mg/mL. This solution can then be diluted into other buffers.
Related Product Information for IL3 active protein	IL3 is produced mainly by T cells following cell activation by antigens and mitogens, but also by keratinocytes, natural killer cells, mast cells, endothelial cells, and monocytes. The analysis of bacterial-derived recombinant IL3 shows that glycosylation is not required for activity. IL3 sequences are evolutionarily less well conserved with human and murine IL3 sharing approximately 29% homology (at the protein level) and murine and rat IL3 sharing approximately 54% homology. IL3 receptors are expressed on macrophages, mast cells, eosinophils, megakaryocytes, basophils, bone marrow progenitor cells and various myeloid leukemia cells. Binding of IL3 to its receptor causes specific phosphorylation of a 150 kDa membrane glycoprotein. Recombinant human IL3 is a non-glycosylated globular protein.
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.
Searchable Terms for IL3 purchase	MBS4159679 is an active protein targeting IL3. Also known as Recombinant Human IL3. Host: E Coli.



Testing Data of IL3 active protein



Testing Data of IL3 active protein

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 Related Accession #	P08700
NCBI Official Full Name	IL-3
NCBI Official Synonym Full Names	interleukin 3
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
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.** Fancd2(-/-) but not Fancd2(+/+) cells were transformed into malignant IL3-independent cells by both E6, and E7 oncogenes, but not by empty plasmid. Hematopoietic cell lines and tumors induced by Fancd2(-/-) E6 and Fancd2(-/-) E7 cell lines were positive for each respective HPV RNA and protein
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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