

Recombinant Human Interleukin 3 (Colony-Stimulating Factor, Multiple)

Cat. No. IL3-275H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human Interleukin-3 produced in <i>Saccharomyces cerevisiae</i> is a single, glycosylated polypeptide chain containing 133 amino acids and having a molecular mass of 15000 Dalton. The recombinant human IL-3 migrates as a broad band between 15 and 22 kDa in SDS-PAGE due to post-translation modifications, in particular glycosylation.
Species	Human
Source	S.Cerevisiae
Description	IL3 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.
AA Sequence	A P M T Q T T P L K T S W V N C S N M I D E I I T H L K Q P P L P L L D F N N L N G E D Q D I L M E N N L R R P N L E A F N R A V K S L Q N A S A I E S I L K N L L P C L P L A T A A P T R H P I H I K D G D W N E F R R K L T F Y L K T L E N A Q A Q Q T T L S L A I F.
Physical Appearance	Sterile Filtered white lyophilized (freeze-dried) powder.
Formulation	Lyophilized from a concentrated (1mg/ml) solution in water containing 20mM

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	Phosphate buffer pH-6.3.
Purity	Greater than 97.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.
Solubility	It is recommended to reconstitute the lyophilized Interleukin-3 in sterile 18Mw-cm H ₂ O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.
Biological Activity	The ED ₅₀ of IL-3 is typically 0.1- 0.4 ng/ml as measured in a cell proliferation assay using the human growth factor dependent TF-1 cell line.
Stability	Lyophilized Interleukin-3 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution IL3 should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

GENE INFORMATION

Gene Name	IL3 interleukin 3 (colony-stimulating factor, multiple) [Homo sapiens]
Synonyms	IL3; interleukin 3 (colony-stimulating factor, multiple); IL-3; MCGF; MGC79398; MGC79399; MULTI-CSF; P-cell stimulating factor; hematopoietic growth factor; interleukin 3; mast-cell growth factor; multilineage-colony -stimulating factor; MULTI-CSF; Hematopoietic growth factor; P-cell-stimulating factor; Mast cell growth factor; Multipotential colony-stimulating factor
Gene ID	3562
mRNA Refseq	NM_000588

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Protein Refseq	NP_000579
MIM	147740
UniProt ID	P08700
Chromosome Location	5q31.1
Pathway	Cytokine-cytokine receptor interaction; Jak-STAT signaling pathway; Asthma; Hematopoietic cell lineage; Fc epsilon RI signaling pathway
Function	interleukin-3 receptor activity; cytokine activity; growth factor activity; protein binding

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