

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

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

## SPECIFICATION

<b>Product Overview</b>	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.
<b>Species</b>	Human
<b>Source</b>	S.Cerevisiae
<b>Description</b>	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.
<b>AA Sequence</b>	<p>           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.         </p>
<b>Physical Appearance</b>	Sterile Filtered white lyophilized (freeze-dried) powder.
<b>Formulation</b>	Lyophilized from a concentrated (1mg/ml) solution in water containing 20mM

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	Phosphate buffer pH-6.3.
<b>Purity</b>	Greater than 97.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.
<b>Solubility</b>	It is recommended to reconstitute the lyophilized Interleukin-3 in sterile 18M $\omega$ -cm H <sub>2</sub> O not less than 100 $\mu$ g/ml, which can then be further diluted to other aqueous solutions.
<b>Biological Activity</b>	The ED <sub>50</sub> 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.
<b>Stability</b>	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

<b>Gene Name</b>	IL3 interleukin 3 (colony-stimulating factor, multiple) [ Homo sapiens ]
<b>Synonyms</b>	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
<b>Gene ID</b>	3562
<b>mRNA Refseq</b>	NM_000588

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

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