

# Recombinant Human IL3 Protein, GMP Grade, Animal-Free

**Cat. No.** IL3-32HG    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
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| <b>Product Overview</b> | GMP Recombinant Human IL3 protein with out tag was expressed in E. coli and manufactured using animal-derived component free materials.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Description</b>      | IL-3 is a hematopoietic growth factor that promotes the survival, differentiation and proliferation of committed progenitor cells of the megakaryocyte, granulocyte-macrophage, erythroid, eosinophil, basophil and mast cell lineages. Produced by T cells, mast cells and eosinophils, IL-3 enhances thrombopoiesis, phagocytosis, and antibody-mediated cellular cytotoxicity. Its ability to activate monocytes suggests that IL-3 may have additional immunoregulatory roles. Many of the IL-3 activities depend upon co-stimulation with other cytokines. IL-3 is a species-specific, variably glycosylated cytokine. |
| <b>AA Sequence</b>      | APMTQTTSLKTSWVNCNMIIDEIITHLKQPPLPLLDFFNNLNGEDQDILMENNLRPNL<br>EAFNRAVKSLQNASAIESILKNLLPCLPLATAAPTRHPIHIKGDWNEFRRLTFYLYKT<br>LENAQAQQTTLSLAIF                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Purity</b>           | ≥ 98% by SDS-PAGE gel and HPLC analyses.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

## GENE INFORMATION

|                  |                                                                                  |
|------------------|----------------------------------------------------------------------------------|
| <b>Gene Name</b> | IL3 interleukin 3 (colony-stimulating factor, multiple) [ Homo sapiens (human) ] |
|------------------|----------------------------------------------------------------------------------|

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|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Official Symbol</b> | IL3                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Synonyms</b>        | IL3; interleukin 3 (colony-stimulating factor, multiple); interleukin-3; hematopoietic growth factor; IL 3; mast cell growth factor; MCGF; MGC79398; MGC79399; MULTI CSF; multilineage colony stimulating factor; P cell stimulating factor; mast-cell growth factor; P-cell stimulating factor; P-cell-stimulating factor; multilineage-colony-stimulating factor; multipotential colony-stimulating factor; IL-3; MULTI-CSF; |
| <b>Gene ID</b>         | 3562                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>mRNA Refseq</b>     | NM_000588                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Protein Refseq</b>  | NP_000579                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>MIM</b>             | 147740                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>UniProt ID</b>      | P08700                                                                                                                                                                                                                                                                                                                                                                                                                         |

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