# Active Recombinant Human IL3 Protein, Animal Free

**Cat. No.** IL3-35H **Lot. No.** (See product label)

## SPECIFICATION

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| **Product Overview** | Recombinant Human IL3 Protein without tag was expressed in Human cells. Animal Free and Xeno Free |
| **Species** | Human |
| **Source** | Human Cells |
| **Description** | Interleukin-3 (IL-3) is belonging to hematopoietic growth factors. It is a secreted protein. IL-3 can improve the body's natural response to disease as part of the immune system. IL-3 stimulates the differentiation of multipotent hematopoietic stem cells into myeloid progenitor cells (as opposed to lymphoid progenitor cells where differentiation is stimulated by IL-7) as well as stimulates proliferation of all cells in the myeloid lineage (erythrocytes, megakaryocytes, granulocytes, monocytes, and dendritic cells) in conjunction with other cytokines, such as EPO, GM-CSF, TPO and IL-6. Additionally, IL-3 aids in embryo implantation and placental development, was found to be decreased both in pregnant women with antiphospholipid syndrome and in animal models of APS. IL-3 also participates in the response of the organism to various types of stress. |
| **Bio-activity** | The activity was measured by its ability to stimulate the proliferation of human TF-1 cells (human erythroleukemic indicator cell line). |
| **Molecular Mass** | 19 kDa |
| **Endotoxin** | <0.5 EU/ |

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| | μg |
| **Purity** | High Purity, >95% by SDS-PAGE |
| **Stability** | Use a manual defrost freezer and avoid repeated freeze-thaw cycles. In general: 12 months from date of receipt, -20 to -80 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -80 centigrade under sterile conditions after reconstitution. |
| **Storage Buffer** | Lyophilized from a 0.2 μm filtered solution in PBS without carrier protein |
| **Reconstitution** | Briefly centrifuge the vial before opening. It is recommended to reconstitute the protein in sterile PBS containing 0.1% endotoxin-free recombinant human serum albumin. |

## GENE INFORMATION

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| **Gene Name** | IL3 interleukin 3 (colony-stimulating factor, multiple) [ Homo sapiens (human) ] |
| **Official Symbol** | IL3 |
| **Synonyms** | 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; |
| **Gene ID** | 3562 |
| **mRNA Refseq** | NM_000588 |

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| **Protein Refseq** | NP_000579 |
| **MIM** | 147740 |
| **UniProt ID** | P08700 |

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