

Recombinant Human IL3, His-tagged

Cat. No. IL3-56H Lot. No. (See product label)

SPECIFICATION

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| Product Overview | Recombinant Human Interleukin-3 produced in <i>E. Coli</i> single, a non-glycosylated, Polypeptide chain containing 133 amino acids fragment (20-152) and having a total molecular mass of 15 kDa with an amino-terminal hexahistidine tag. The IL3 His is purified by proprietary chromatographic techniques. |
| Species | Human |
| Source | E.coli |
| ProteinLength | 20-152 a.a. |
| Description | Interleukin-3 is a pleiotropic cytokine produced primarily by activated T cells. IL-3 is thought to function via specific cell surface receptors to stimulate the proliferation, differentiation and survival of haematopoietic cell lines. IL-3 has also been shown to affect the functional activity of a variety of other cell types including mast cells, eosinophils, megakaryocytes and basophils. |
| Physical Appearance | Sterile Filtered clear solution. |
| Purity | Greater than 95.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE. |
| Formulation | Interleukin-3 His is supplied in 1x PBS and 50% glycerol. |
| Biological activity | The ED50 for this effect is <0.53 ng/ml="" .="" measured="" in="" a="" cell="" |

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proliferation="" assayusing="" tf1="" human="" erythroleukemic="">

Activity Assay

1.Cell line: TF1 (human erythroleukemic cell)2.Maintenance Condition: 10% FBS RPMI 1640 with GM-CSF3.Assay Medium: 10% FBS RPMI 1640 without GM-CSF4.Cell Density: 2 x 10⁴ cells/well (96 well plate, final volume 100ul)5.Starvation : 24hr, Assay medium6.Incubation Time : 48 hr (after sample treatment)7.Concentration Range: 0.048ng/ml - 25ng/ml 8.Detection method : MTT assay

Storage

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. Please avoid 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; interleukin 3; mast-cell growth factor; P-cell stimulating factor; hematopoietic growth factor; Mast cell growth factor; multilineage-colony-stimulating factor; Multipotential colony-stimulating factor; Hematopoietic growth factor

Gene ID

3562

mRNA Refseq

NM_000588

Protein Refseq

NP_000579

MIM

147740

UniProt ID

P08700

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| Chromosome Location | 5q31.1 |
| Pathway | Cytokine-cytokine receptor interaction; Fc epsilon RI signaling pathway; Hematopoietic cell lineage; Jak-STAT signaling pathway; Apoptosis; Asthma |
| Function | cytokine activity; growth factor activity; protein binding; interleukin-3 receptor binding |

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