

Active Recombinant Human IL3

Cat. No. IL3-200H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human interleukin 3 expressed in CHO cells is glycosylated protein with molecular weight range from 17 to 30 kDa shown in non-reducing SDS-PAGE.
Species	Human
Source	CHO
Description	Interleukin-3 (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 thrombopoieses, 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 species-specific, variably glycosylated cytokine.
Form	Lyophilized after extensive dialysis against PBS.
Bio-activity	ED50 < 0.1 ng/ml, measured in a cell proliferation assay using tf-1 cells, corresponding to a specific activity of > 1 × 10 ⁷ units/mg.
Molecular Mass	17-30 kDa, observed by non-reducing SDS-PAGE.
AA Sequence	Ala20-Phe152.

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Endotoxin	< 0.2 EU/μg, determined by LAL>
Purity	>95% as analyzed by SDS-PAGE and HPLC.
Storage	Lyophilized recombinant protein remains stable up to 6 months at -80°C from date of receipt. Upon reconstitution, rhIL-3 should be stable up to 1 week at 4°C or up to 2 months at -20°C.
Reconstitution	Reconstituted in ddH ₂ O or PBS at 100 μg/ml.

GENE INFORMATION

Gene Name	IL3 interleukin 3 (colony-stimulating factor, multiple) [Homo sapiens]
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
Protein Refseq	NP_000579
MIM	147740
UniProt ID	P08700

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Chromosome Location	5q23-q31
Pathway	Apoptosis, organism-specific biosystem; Apoptosis, conserved biosystem; Asthma, organism-specific biosystem; Asthma, conserved biosystem; Calcineurin-regulated NFAT-dependent transcription in lymphocytes, organism-specific biosystem; Calcium signaling in the CD4+ TCR pathway, organism-specific biosystem; Cytokine Signaling in Immune system, organism-specific biosystem;
Function	cytokine activity; growth factor activity; interleukin-3 receptor binding;

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