

Recombinant Mouse Interleukin 3

Cat. No. IL3-542M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human IL3 was expressed in E. coli and purified recombinant Mouse IL3 protein.
Species	Mouse
Source	Mouse
Description	IL3 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, IL3 enhances thrombopoiesis, phagocytosis, and antibody-mediated cellular cytotoxicity. Its ability to activate monocytes suggests that IL3 may have additional immunoregulatory roles. Many of the IL3 activities depend upon co-stimulation with other cytokines. IL3 is species-specific, variably glycosylated cytokine.
Form	Supplied lyophilized with no additives. Reconstitute in water to a concentration of 0.1-1.0 mg/ml. Keep pH below 5.0.
Purity	>98% pure by SDS-PAGE and HPLC
Sequence	Region of IL3 protein corresponding to amino acids MDTHRLTRL NCSSIVKEII GKLPEPELKT DDEGPSLRNK SFRRVNLSKF VESQGEVDPE DRYVIKSNLQ KLNCCLP TSA NDSALPGVFI RDLDDFRKKLRFYMVHLNDL ETVLTSRPPQ PASGSVSPNR GTVEC.

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Molecular Mass	15.1 kDa
Applications	Numerous applications are possible with this product and should be tested by the enduser under their own laboratory conditions.
Storage	Store at 4 deg C until reconstitution. Following reconstitution aliquot and freeze at -20 deg C for long term storage. Avoid repeated freeze/thaw cycles.
Official Symbol	IL3
GENE INFORMATION	
Gene Name	IL3 interleukin 3 [Mus musculus]
Synonyms	IL3; interleukin 3; BPA; PSF; HCGF; IL-3; MCGF; Csfmu; nterleukin-3; TTMUSP00000005831; ast cell growth factor; P-cell-stimulating factor; hematopoietic growth factor; multipotential colony-stimulating factor
Gene ID	16187
mRNA Refseq	NM_010556
Protein Refseq	NP_034686
UniProt ID	P01586
Chromosome Location	11
Pathway	Apoptosis; Asthma; Cytokine-cytokine receptor interaction; Fc epsilon RI signaling pathway; Hematopoietic cell lineage; IL-3 Signaling Pathway; Jak-STAT signaling

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pathway; Senescence and Autophagy

Function

cytokine activity; growth factor activity; interleukin-3 receptor binding

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