

Active Recombinant Mouse Il3 Protein, His-Tagged

Cat. No. Il3-01M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant mouse Il3 Protein, His-tagged was expressed in E. coli cell
Species	Mouse
Source	E.coli
Description	Interleukin 3 is an interleukin, a type of biological signal (cytokine) that can improve the body's natural response to disease as part of the immune system. It acts by binding to the interleukin-3 receptor. Interleukin 3 stimulates the differentiation of multipotent hematopoietic stem cells into myeloid progenitor cells or, with the addition of IL-7, into lymphoid progenitor cells. In addition, IL-3 stimulates proliferation of all cells in the myeloid lineage (granulocytes, monocytes, and dendritic cells), in conjunction with other cytokines, e.g., Erythropoietin (EPO), Granulocyte macrophage colony-stimulating factor (GM-CSF), and IL-6. It is secreted by basophils and activated T cells to support growth and differentiation of T cells from the bone marrow in an immune response.
Form	Lyophilized powder
AA Sequence	MDTHRLTRTLNCSSIVKEIIGKLPEPELKTDDGPSLRNKSFRRVNLSKFVESQGEVD PEDRYVIKSNLQKLNCCCLPTSANDSALPGVFIRDLDD FRKKLRFYMHVHLNDLETVLTSRPPQPASGSVSPNRGTVEC with polyhistidine tag at the C-terminus
Endotoxin	<0.1 EU per 1

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	µg of the protein by the LAL method.
Bio-activity	Measure by its ability to induce NFS-60 cells proliferation. The ED50 for this effect is <85 pg/mL. The specific activity of recombinant mouse IL-3 is approximately >1x 10 ⁷ IU/mg.
Purity	≥95% as determined by SDS-PAGE and HPLC. Purified by Ni-NTA chromatography.
Storage Buffer	The protein was lyophilized from a solution containing 1X PBS, pH 7.4.
Reconstitution	It is recommended to reconstitute the lyophilized protein in sterile H ₂ O to a concentration not less than 100 µg/mL and incubate the stock solution for at least 20 min to ensure sufficient re-dissolved.
Storage	Lyophilized protein should be stored at -20°C. Upon reconstitution, protein aliquots should be stored at -20°C or -80°C.
Notes	Please use within one month after protein reconstitution.

GENE INFORMATION

Gene Name	IL3 interleukin 3 [<i>Mus musculus</i> (house mouse)]
Official Symbol	IL3
Synonyms	BPA; PSF; HCGF; IL-3; MCGF; Csfmu
Gene ID	16187
mRNA Refseq	NM_010556.4

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Protein Refseq NP_034686.2

UniProt ID P01586

kDa

75-

63-

48-

35-

25-

17-

10-

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