

## Active Recombinant Mouse Il3 Protein, His-Tagged

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

### SPECIFICATION

<b>Product Overview</b>	Recombinant mouse Il3 Protein, His-tagged was expressed in E. coli cell
<b>Species</b>	Mouse
<b>Source</b>	E.coli
<b>Description</b>	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.
<b>Form</b>	Lyophilized powder
<b>AA Sequence</b>	MDTHRLRTLNCSSIVKEIIGKLPEPELKTDDDEGPSLRNKSFRRVNLSKVFVESQGEVD PEDRYVIKSNLQKLNCCCLPTSANDSALPGVFIKDLDD FRKKLRFYMVHLNDLETVLTSRPPQPASGSVSPNRGTVEC with polyhistidine tag at the C-terminus
<b>Endotoxin</b>	<0.1 EU per 1

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	µg of the protein by the LAL method.
<b>Bio-activity</b>	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 <sup>7</sup> IU/mg.
<b>Purity</b>	≥95% as determined by SDS-PAGE and HPLC. Purified by Ni-NTA chromatography.
<b>Storage Buffer</b>	The protein was lyophilized from a solution containing 1X PBS, pH 7.4.
<b>Reconstitution</b>	It is recommended to reconstitute the lyophilized protein in sterile H <sub>2</sub> 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.
<b>Storage</b>	Lyophilized protein should be stored at -20°C. Upon reconstitution, protein aliquots should be stored at -20°C or -80°C.
<b>Notes</b>	Please use within one month after protein reconstitution.

## GENE INFORMATION

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