

# Mouse IL-3 Protein

Cat. No. IL3-MM101

## Description

<b>Source</b>	Recombinant Mouse IL-3 Protein is expressed from HEK293 with His tag at the C-terminus. It contains Ala27-Cys166.
<b>Accession</b>	P01586
<b>Molecular Weight</b>	The protein has a predicted MW of 16.77 kDa. Due to glycosylation, the protein migrates to 27-40 kDa based on Bis-Tris PAGE result.
<b>Endotoxin</b>	Less than 1EU per $\mu\text{g}$ by the LAL method.
<b>Purity</b>	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

## Formulation and Storage

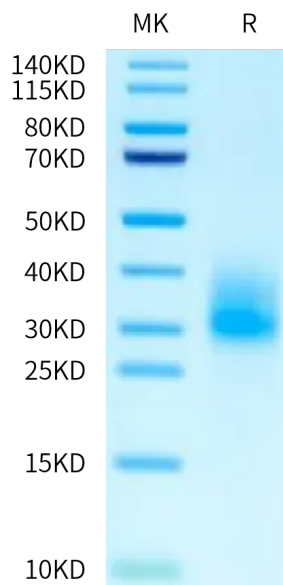
<b>Formulation</b>	Lyophilized from 0.22 $\mu\text{m}$ filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 $\mu\text{g}/\text{ml}$ is recommended. Dissolve the lyophilized protein in distilled water.
<b>Storage</b>	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3 months after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

## Background

Interleukin 3 is a pleiotropic factor produced primarily by activated T cells that can stimulate the proliferation and differentiation of pluripotent hematopoietic stem cells as well as various lineage committed progenitors. This CSF induces granulocytes, macrophages, mast cells, stem cells, erythroid cells, eosinophils and megakaryocytes.

## Assay Data

### Bis-Tris PAGE



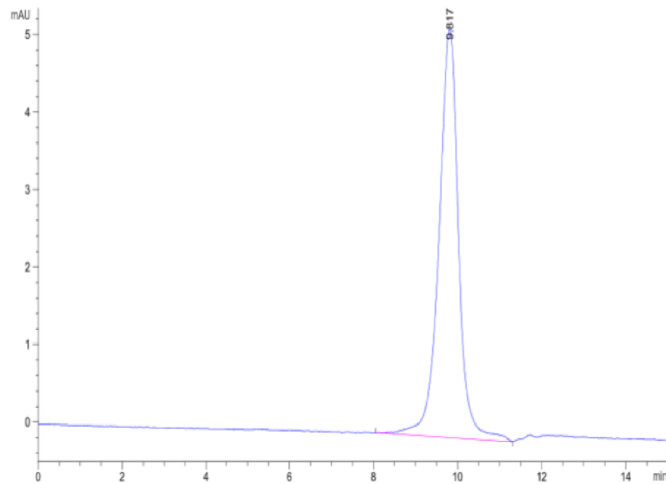
Mouse IL-3 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

### SEC-HPLC

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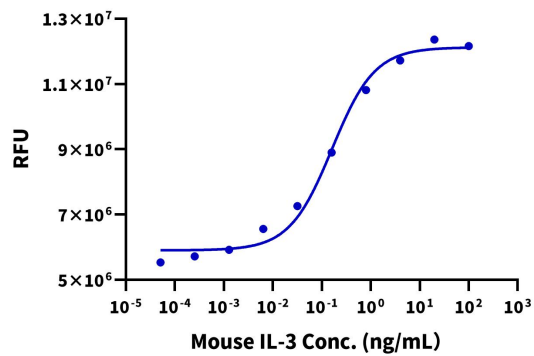
## Assay Data



The purity of Mouse IL-3 is greater than 95% as determined by SEC-HPLC.

## Cell Based Assay

### Recombinant Mouse IL-3 Activity



Measured in a cell proliferation assay using NFS-60 mouse myelogenous leukemia lymphoblast cells. The ED50 for this effect is 0.1 - 0.5 ng/mL.