

## IL-3, Mouse

**Cat. No.:** Z02765-10

**Size:** 10.0 ug

**Synonyms:** Interleukin-3 ( IL-3 ), Mouse;

### Description:

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 thrombopoiesis, 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.

### Amino Acid Sequence:

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00001 DTHRLTRTLN CSSIVKEIIG KLPEPELKTD DEGSLRNKS  
00041 FRRVNLSKFV ESQGEVDPED RYVIKSNLQK LNCCLPTSAN  
00081 DSALPGVFIR DLDDFRKKLR FYMVHLNDLE TVLTSRPPQP  
00121 ASGSVSPNRG TVEC
```

**Source:** *E. coli*

**Species:** Mouse

**Biological Activity:** Fully biologically active when compared to standard. The ED<sub>50</sub> as determined by the dose-dependent stimulation of the proliferation of murine M-NFS-60 cells is less than 0.05 ng/ml, corresponding to a specific activity of > 2 × 10<sup>7</sup> IU/mg.

**Molecular Weight:** Approximately 14.8 kDa globular protein containing 134 amino acid residues.

**Formulation:** Lyophilized from a 0.2 µm filtered solution in PBS, pH 7.4.

**Appearance:** Sterile Filtered White lyophilized (freeze-dried) powder.

**Reconstitution:** We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at ≤ -20 °C. Further dilutions should be made in appropriate buffered solutions.

**Purity:** > 98 % by SDS-PAGE and HPLC analyses.

**Endotoxin Level:** Less than 1 EU/µg of rMuIL-3 as determined by LAL method.

**Storage:** This lyophilized preparation is stable at 2-8 °C, but should be kept at -20 °C for long term storage, preferably desiccated. Upon reconstitution, the preparation is stable for up to one week at 2-8 °C. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20 °C to -70 °C. Avoid repeated freeze/thaw cycles.