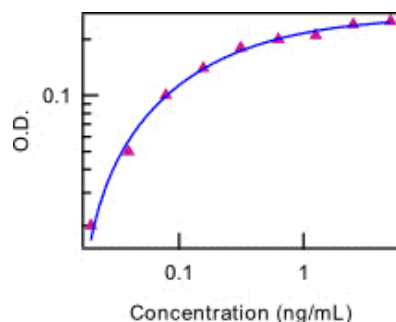


## Human IL-3 Recombinant Protein

**Catalog Number:** 14-8039

**Also Known As:** Interleukin-3, IL3

**RUO: For Research Use Only. Not for use in diagnostic procedures.**



Proliferation of TF-1 cells in response to Human IL-3 Recombinant Protein

### Product Information

**Contents:** Human IL-3 Recombinant Protein

**REF** **Catalog Number:** 14-8039

**Handling Conditions:** For best recovery, quick-spin vial prior to opening. Use in a sterile environment

**Source:** *E. coli* expressed mature human IL-3 (accession #NM\_000588).


**Molecular Mass:** 15 kDa

**Purity:** Greater than 95%, as determined by SDS-PAGE.

**Endotoxin Level:** Less than 0.01 ng/ug cytokine as determined by the LAL assay.

**Bioactivity:** The ED<sub>50</sub> measured in a TF-1 proliferation assay is typically less than 0.15 ng/ml, corresponding to a specific activity of greater than 7x10<sup>6</sup> Units/mg.

**Formulation:** Sterile liquid: 20mM Phosphate Buffer, 0.15M NaCl, pH 7.0, 1% BSA, 0.22 µm filtered.

 **Temperature Limitation:** Store at less than or equal to -70°C.

**LOT** **Batch Code:** Refer to Vial

 **Use By:** Refer to Vial

### Description

Interleukin 3 (IL-3), also called Mast Cell Growth Factor (MCGF), Multi-Colony Stimulating Factor (multi-CSF), Eosinophil-CSF (E-CSF), is produced by activated T cells, mast cells and eosinophils. IL-3 is a hematopoietic growth factor that stimulates colony formation of erythroid, megakaryocyte, neutrophil, eosinophil, basophil, mast cell and monocytic lineages. Most of these functions are enhanced or dependent on co-stimulation with other cytokines. Human and mouse IL-3 share only 29% sequence identity at the amino acid level. The bioactivity of IL-3 is highly species specific. Human IL-3 has no activity on mouse cells.

### Applications Reported

Recombinant human IL-3 is biologically active and can stimulate the proliferation of TF-1 cells.

### Applications Tested

This recombinant human IL-3 has been tested by bioassays using the TF-1 cell line. The ED<sub>50</sub> measured in a TF-1 proliferation assay is typically less than 0.15 ng/ml, corresponding to a specific activity of greater than 7x10<sup>6</sup> Units/mg.

### References

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Donahue RE, Seehra J, Metzger M, Lefebvre D, Rock B, Carbone S, Nathan DG, Garnick M, Sehgal PK, Laston D. Human IL-3 and GM-CSF act synergistically in stimulating hematopoiesis in primates. *Science*. 1988 Sep 30;241(4874):1820-3.

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**Related Products**

14-8031 Mouse IL-3 Recombinant Protein

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