

## Recombinant Murine Interleukin-3 (rm IL-3)

**Synonyms:** MCGF (Mast cell growth factor), Multi-CSF, HCGF, P-cell stimulation factor

**Introduction:** Interleukin-3 is a pleiotropic cytokine produced primarily by activated T cells. IL-3 is thought to function via specific cell surface receptors to stimulate the proliferation, differentiation and survival of haematopoietic cell lines. IL-3 has also been shown to affect the functional activity of a variety of other cell types including mast cells, eosinophils, megakaryocytes and basophils.

**Description:** Recombinant murine IL-3 produced in *E. Coli* is a single, non-glycosylated polypeptide chain containing 135 amino acids and having a molecular mass of 15.1 kDa. The rm IL-3 is purified by proprietary chromatographic techniques.

**Source:** *Escherichia Coli*.

**Physical Appearance:** Sterile filtered white lyophilized (freeze-dried) powder.

**Formulation:** Lyophilized from a 0.22 µm filtered carrier free solution in PBS, pH 7.5  
The aliquots of 1µg and 2µg contain Trehalose 5% (w/vol) for better recovery

**Solubility:** It is recommended to reconstitute the lyophilized rm IL-3 in sterile H<sub>2</sub>O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

**Stability:** Lyophilized rm IL-3 although stable at room temperature for 3 weeks, should be stored desiccated below -18° C. Upon reconstitution rm IL-3 should be stored at 4° C between 2-7 days and for future use below -18° C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

**Purity:** Greater than 95.0% as determined by SDS-PAGE.

**Amino acid sequence:** The sequence of the first five N-terminal amino acids was determined and was found to be Met-Asp-Thr-His-Arg.

**Biological Activity:** The ED<sub>50</sub> as determined by the dose-dependant stimulation of murine M-NFS-60 cells is < 0.05 ng/ml, corresponding to a specific activity of 2 x 10<sup>7</sup> IU/mg.

**Endotoxin:** Less than 0.1 ng/µg (IEU/µg) of rm IL-3.

This material is offered for **research only**. Not for use in human. For in vitro use only. ImmunoTools will not be held responsible for patent infringement or other violations that may occur with the use of our products.

<i>small</i>	2 µg	Cat.N°	12340032
<i>medium</i>	10 µg	Cat.N°	12340033
<i>large</i>	50 µg	Cat.N°	12340035
<i>x-large</i>	250 µg	Cat.N°	12340037
<i>xx-large</i>	1000 µg	Cat.N°	12340038

**ImmunoTools** Excellent Quality - Advantageously priced

Gladiolenweg 2; 26169 Friesoythe; Germany  
phone:+49-(0)4491-400997, fax:+49-(0)4491-400998, info@immunotools.com  
www.immunotools.com