

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 H₂O 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.

Endotoxicity: The endotoxin level is less than 1 EU / µg determined by LAL method.

Amino acid sequence: MDTHRLTRTL NCSSIVKEII GKLPEPELKT DDEGPSLRNK SFRRVNLSKF
VESQGEVDPE DRYVIKSNLQ KLNCCCLPTSA NDSALPGVFI RDLDDFRKKL RFYMVHLNDL
ETVLTSRPPQ PASGSVSPNR GTVEC

Biological Activity: The ED₅₀ as determined by the dose-dependant stimulation of the proliferation of murine Ba/F3 cells. The ED50 was found to be ≤ 0.05 ng/ml, corresponding to a specific activity of ≥ 2 x 10⁷ units/mg.

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

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