

## Recombinant Canine Interleukin-3 (rc IL-3)

**Synonyms:** MCGF (Mast cell growth factor), Multi-CSF, HCGF, P-cell stimulation factor, MGC79398, MGC79399.

**Introduction:** IL-3 is a potent growth promoting cytokine. This cytokine is capable of supporting the proliferation of a broad range of hematopoietic cell types. It is involved in a variety of cell activities such as cell growth, differentiation and apoptosis. This cytokine has been shown to also possess neurotrophic activity, and it may be associated with neurologic disorders.

**Description:** Recombinant canine Interleukin-3 produced in E.Coli is a single, non-glycosylated polypeptide chain containing 120 amino acids and having a molecular mass of 14 kDa. The IL-3 is purified by proprietary chromatographic techniques.

**Source:** *Escherichia Coli*.

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

**Formulation:** Lyophilized from a 1mg/ml solution in water containing 1x PBS pH 7.4  
The aliquotes of 1µg and 2µg contain Trehalose 5% (w/vol) for better recovery

**Solubility:** It is recommended to reconstitute the lyophilized rc IL-3 in sterile water not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

**Stability:** Lyophilized rc IL-3 although stable at room temperature for 3 weeks, should be stored desiccated below -18° C. Upon reconstitution rc IL-3 should be stored at 4° C between 2-7 days and for future use below -18° C. Please prevent freeze-thaw cycles.

**Purity:** Greater than 97.0% as determined by:

- (a) Analysis by RP-HPLC
- (b) Analysis by SDS-PAGE.

**Amino Acid Sequence:** RPFSTDLPKQ YFTMINEIME MLNKSPSPSE EPLDSNEKET LLEDTLRLPN  
LDVFLNASSK FHKNGLLIWN NLKEFLPLLP TPTPRGEPIS IMENNWGDFQ RKLKKYLEAL DNFLNFKNKP.

**Biological Activity:** Determined by the dose-dependant stimulation of TF-1 cells is < 0.2 ng/ml, corresponding to a Specific Activity of 5x10<sup>6</sup> IU/mg.

**Protein content:** Protein quantitation was carried out by two independent methods:

1. UV spectroscopy at 280 nm
2. Analysis by RP-HPLC, using a calibrated solution of rrIL-3 as a Reference Standard.

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°	15340032
<i>medium</i>	10 µg	Cat.N°	15340033

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