



## Interleukin-3 (IL-3), canine recombinant

**Catalog No:** 97367  
**Lot No:** XXXXX  
**Source:** *E. coli*  
**Synonyms:** MCGF (Mast cell growth factor), Multi-CSF, HCGF, P-cell stimulation factor, IL-3, MGC79398, MGC79399

### Background

IL3 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

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

### Physical Appearance

Sterile filtered white lyophilized (freeze-dried) powder.

### Formulation

Lyophilized from a concentrated (1 mg/ml) solution in water containing 1X PBS pH 7.4.

### Solubility

It is recommended to reconstitute the lyophilized Interleukin-3 in sterile 18 MΩ-cm H<sub>2</sub>O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

### Stability

Lyophilized IL-3, although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution 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 HPLC, (b) Analysis by SDS-PAGE.

### Amino Acid Sequence

RPFSTDLPKQ YFTMINEIME MLNKSPSPSE EPLDSNEKET LLEDTLRLPN LDVFLNASSK FHKNGLLIWN NLKEFLPLLP  
TPTPRGEPIS IMENNWDGDFQ RKLKKYLEAL DNFLNFKNKP

### Activity

The ED<sub>50</sub> as determined by the dose-dependant stimulation of TF-1 cells is <0.2 ng/ml, corresponding to a specific activity of 5,000,000 IU/mg.

### Usage

**This product is offered by Biomol for research purposes only. Not for diagnostic purposes or human use. It may not be resold or used to manufacture commercial products without written approval of Biomol GmbH.**

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