

Recombinant Canine Interleukin-3 (rc IL-3)

Synonyms: MCGF, 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 LLEDTLRPN
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 5 x 10⁶ 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.

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|---------------|-------|--------|----------|
| <i>small</i> | 2 µg | Cat.N° | 15340032 |
| <i>medium</i> | 10 µg | Cat.N° | 15340033 |

ImmunoTools Excellent Quality - Advantageously priced

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