

rHuIL-3

Recombinant Human Interleukin-3

Product	Cat#	Package size
Recombinant Human Interleukin-3	C6023.0002	2µg
Recombinant Human Interleukin-3	C6023.0010	10µg

Synonyms: MCGF (Mast cell growth factor), Multi-CSF, HCGF, P-cell stimulation factor, IL-3, MGC79398, MGC79399.

Product description

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.

Recombinant Human IL-3 produced in *E.coli* is a single, non-glycosylated polypeptide of 133 amino acids and a molecular weight of 15000 Dalton.

Source: *Escherichia coli*

Biological activity

The ED50 as determined by the dose-dependent stimulation of TF-1 cells is <0.1ng/mL, corresponding to a Specific Activity of 10,000,000 IU/mg.

Purity: Greater than 98% by SDS-PAGE and HPLC analysis.

Amino acid sequence

The sequence of the first five N-terminal amino acids was determined and was found to be Ala-Pro-Met-Thr-Gln.

Formulation: Lyophilized from a filtered concentrated (1mg/mL) solution in water containing 0.3mg/mL NaHCO₃.

Solubility / Reconstitution

It is recommended to briefly centrifuge the vial prior to opening to bring the contents to the bottom. Reconstitute the lyophilised rHuIL-3 in sterile water not less than 100µg/mL, which can then be further diluted to other aqueous solutions.

Stability

Lyophilised rHuIL-3 although stable at room temperature for 3 weeks, should be stored desiccated at -20°C. Reconstituted rHuIL-3 is best stored refrigerated at +2°C to +8°C between 2-7 days and at -20°C for long term storage. For long term storage it is recommended to add a carrier protein (e.g., 0.1% HSA or BSA).

Please prevent from repeated freeze-thaw cycles.

Protein Content

Protein quantitation was carried out by two independent methods

1. UV spectroscopy at 280 nm using the absorbency value of 0.84 as the extinction coefficient for a 0.1% (1mg/mL) solution.

This value is calculated by the PC GENE computer analysis program of protein sequences (IntelliGenetics).

2. Analysis by RP-HPLC, using a standard solution of IL-3 as a Reference Standard.

Usage

This product is for **research/laboratory usage only**. It may not be used as drug, agricultural or pesticidal product, food additive or household chemical.