



Product Datasheet

Product Name	Recombinant Human Interleukin-3
Cata No	CB500112
Source	<i>Escherichia Coli.</i>
Synonyms	MCGF (Mast cell growth factor), Multi-CSF, HCGF, P-cell stimulation factor, IL-3, MGC79398, MGC79399.

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.

Interleukin-3 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 133 amino acids and having a molecular mass of 15000 Dalton. The IL-3 is purified by proprietary chromatographic techniques.

Physical Appearance

Sterile Filtered White lyophilized (freeze-dried) powder.

Biological Activity

The ED50 as determined by the dose-dependant stimulation of TF-1 cells is < 0.1 ng/ml, corresponding to a Specific Activity of 1×10^7 IU/mg.

Purity

Greater than 98.0% as determined by:

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

Formulation

Lyophilized from a concentrated (1mg/ml) solution in water containing 5mg HSA and 4.3mg Sodium Chloride.

Reconstitution

It is recommended to reconstitute the lyophilized Interferon-3 sterile 18MΩ-cm H2O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.

Stability

Lyophilized Interleukin-3 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution IL3 should be stored at 4°C between 2-7 days and for future use below -18°C.

Please prevent freeze-thaw cycles.

Sequence

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

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