
Product Data Sheet

Product Name: IL 3 Mouse

Cat. No.: GP20490

Batch No.: 1

Product Data

Purity	Greater than 97.0% as determined by:(a) Analysis by SEC-HPLC.(b) Analysis by SDS-PAGE.	Source	Escherichia Coli.
Physical Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.	Shipping Condition	Shipped at Room temp.
Synonyms	MCGF (Mast cell growth factor); Multi-CSF; HCGF; P-cell stimulation factor; IL-3; MGC79398; MGC79399.		
Amino Acid Sequence	The sequence of the first five N-terminal amino acids was determined and was found to be Met-Asp-Thr-His-Arg.		
Solubility	It is recommended to reconstitute the lyophilized Interleukin-3 in sterile 18MΩ-cm H ₂ O not less than 100μg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	Lyophilized from a concentrated (1mg/ml) solution in water containing no additives.		

Introduction

Interleukin-3 is a pleiotropic cytokine produced primarily by activated T cells. IL-3 is thought to function via specific cell surface receptors to stimulate the proliferation, differentiation and survival of haematopoietic cell lines. IL-3 has also been shown to affect the functional activity of a variety of other cell types including mast cells, eosinophils, megakaryocytes and basophils.

Biological Activity

The ED₅₀ as determined by the dose-dependant stimulation of murine M-NFS-60 cells is < 0.05 ng/ml, corresponding to a Specific Activity of 20,000,000IU/mg.

Caution: Product has not been fully validated for medical applications. For research use only.

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Stability

Lyophilized Interleukin-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 . For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

Background

Interleukin-3 mouse Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 135 amino acids and having a molecular mass of 15100 Dalton. The IL-3 is purified by proprietary chromatographic techniques.

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