
Product Data Sheet

Product Name: IL 3 Human, Sf9

Cat. No.: GP20489

Batch No.: 1

Product Data

Purity	>98%	Source	Insect Cells.
Physical Appearance	solid	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 Ala-Pro-Ala-Pro-Thr.		
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 0.5X PBS pH-7.4.		

Introduction

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.

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 10,000,000IU/mg.

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

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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 Human Recombinant produced in insect cells is a single, glycosylated polypeptide chain containing 133 amino acids and having a molecular mass of 15000 Dalton. The IL-3 CSF is fused to a C-terminal His-tag (6x His) and purified by proprietary chromatographic techniques.

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