
Product Data Sheet

Product Name: IL 3 Rat
 Cat. No.: GP20492
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
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	MISDRGSDAH HLLRTLDCRT IALEILVKLP YPQVSGLNNS DDKANLRNST LRRVNLDEFK KSQEEFDSQD TTDIKSKLQK LKCCIPAAAS DSVLPGVYNK DLDDFKKKLR FYVIHLKDLQ PVSVSRPPQP TSSSDNFRPM TVEC.		
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	Interleukin-3 Rat was lyophilized from a 0.2µm filtered concentrated solution in PBS, pH 7.4.		

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-dependent stimulation of the proliferation of thymidine uptake by murine MC-9 cells is < 10 ng/ml, corresponding to a specific activity of >1.0 x 10⁵ units/mg.

Stability

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

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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 . 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 Rat Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 144 amino acids and having a molecular mass of 16.3kDa. The IL-3 is purified by proprietary chromatographic techniques.

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