
Product Data Sheet

Product Name: IL 5 Rat
 Cat. No.: GP20510
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	EDF; BCDFII; TRF; T-cell replacing factor; Eosinophil differentiation factor; B cell differentiation factor I; IL-5.		
Amino Acid Sequence	The sequence of the first five N-terminal amino acids was determined and was found to be Met-Glu-Ile-Pro-Met.		
Solubility	It is recommended to reconstitute the lyophilized Interleikin-5 Rat 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

The protein encoded by this gene is a cytokine that acts as a growth and differentiation factor for both B cells and eosinophils. This cytokine is a main regulator of eosinopoiesis, eosinophil maturation and activation. The elevated production of this cytokine is reported to be related to asthma or hypereosinophilic syndromes. The receptor of this cytokine is a heterodimer, whose beta subunit is shared with the receptors for interleukine 3 (IL3) and colony stimulating factor 2 (CSF2/GM-CSF). This gene, together with those for interleukin 4 (IL4), interleukin 13 (IL13), and CSF2, form a cytokine gene cluster on chromosome 5. This cytokine, IL4, and IL13 are found to be regulated coordinately by long-range regulatory elements spread over 120 kilobases on chromosome 5q31.

Biological Activity

The ED50 range=0.3-1.0 ng/ml as determined by the dose-dependant stimulation of the proliferation of BCL-1 cells.

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

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Stability

Lyophilized Interleukin-5 Rat although stable at room temperature for 3 weeks, should be stored desiccated below -18°C . Upon reconstitution IL5 Rat should be stored at 4°C between 2-7 days and for future use below -18°C . Please avoid freeze thaw cycles.

Background

Interleukin-5 Rat Recombinant produced in E.Coli is a dimeric, non-glycosylated polypeptide chain containing 113 amino acids and having a molecular mass of 13074 Dalton. The IL-5 is purified by proprietary chromatographic techniques.

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