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## Product Data Sheet

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Product Name: IL 5 Rhesus Macaque  
 Cat. No.: GP20511  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	Interleukin-5; IL-5; Eosinophil differentiation factor; T-cell replacing factor; TRF; IL5.		
Amino Acid Sequence	IPTEIPASAL VKETLALLST HRTLLIANET LRIPVPVHKN HQLCTEEIFQ GIGTLESQTV QGGTVERLFK NLSLIKYYIG GQKKKCGEER RRVNQFLDYL QEFLGVMNTE WIIES.		
Solubility	It is recommended to reconstitute the lyophilized Interleukin-5 in sterile 18MΩ-cm H <sub>2</sub> O not less than 100μg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	Lyophilized from a 0.2μm filtered concentrated solution in 1xPBS, pH 7.4 and 5% Trehalose.		

### 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 as determined by a cell proliferation assay using human TF-1 cells is less than

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5ng/ml, corresponding to a specific activity of  $> 2.0 \times 10^5$  IU/mg.

### Stability

Lyophilized IL-5 Rhesus Macaque although stable at room temperature for 3 weeks, should be stored desiccated below  $-18^{\circ}\text{C}$ . Upon reconstitution IL5 Rhesus Macaque should be stored at  $4^{\circ}\text{C}$  between 2-7 days and for future use below  $-18^{\circ}\text{C}$ . Please prevent freeze-thaw cycles.

### Background

IL5 Rhesus Macaque Recombinant produced in E.Coli is a disulfide-linked homodimeric, non-glycosylated, polypeptide protein containing 2x115 amino acids chains and having a total molecular mass of 26.1kDa. The IL-5 Rhesus Macaque is purified by proprietary chromatographic techniques.

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