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## Product Data Sheet

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Product Name: IL 9 Rat  
 Cat. No.: GP20539  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	Interleukin 9; Protein II9; II9.		
Amino Acid Sequence	MQRCSTSWG I QHTSYLIENL KDDPSSK CSC SANVT SCLCL PIPSDDCTTP CFQEGMSQVT NATQQSKFSP FFFRVKRIVE TLKSNKCQFF SCEKPCNQTT AGNTVSFLKS LLKTFQKTEV QVQRSRA.		
Solubility	It is recommended to reconstitute the lyophilized Interleukin 9 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	IL9 protein was lyophilized from a 0.2μm filtered concentrated solution in PBS, pH 7.4.		

### Introduction

Factor that is thought to be a regulator of hematopoiesis. It has been shown to enhance the growth of human mast cells and megakaryoblastic leukemic cells as well as murine helper t-cell clones. IL-9 is a glycoprotein with a molecular weight of 32-39 that is derived from T-cells, and maps to human chromosome 5.

### Biological Activity

The ED<sub>50</sub> as determined by a cell proliferation assay using murine TS1 cells is less than 10 ng/ml, corresponding to a specific activity of > 1.0 × 10<sup>5</sup> IU/mg.

### Stability

Lyophilized Interleukin-9 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C . Upon reconstitution IL9 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.

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

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### Background

Interleukin-9 Rat Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 127 amino acids and having a molecular mass of 14.3kDa. The IL-9 is purified by proprietary chromatographic techniques.

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