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## Product Data Sheet

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Product Name: IL 7 Mouse  
 Cat. No.: GP20533  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	Lymphopoietin 1 (LP-1); pre-B cell factor; IL-7.		
Amino Acid Sequence	ECHIKDKEGK AYESVLMISI DELDKMTGTD SNCPNNEPNF FRKHVCDDTK EAAFLNRAAR KLKQFLKMNI SEEFNVHLLT VSQGTQTLVN CTSKEEKNVK EQKKNDACFL KRLLEIKTC WNKILKGS.		
Solubility	It is recommended to reconstitute the lyophilized Interleukin 7 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	Filtered (0.2μm) and lyophilized from a concentrated (1mg/ml) solution in 16 <sup>+</sup> PBS, pH7.4 and 2% trehalose.		

### Introduction

Interleukin-7 is a potent lymphoid cell growth factor produced primarily by stromal cells. IL-7 has been shown to support the proliferation and differentiation of pre B- and early T cells as well as displaying a biological effect on cells of NK and myeloid lineages.

### Biological Activity

The ED<sub>50</sub> was determined by the dose-dependent stimulation of the proliferation of murine 2E8 cells is less than 0.2 ng/ml, corresponding to a specific activity of >5.06<sup>+</sup>10<sup>6</sup> IU/mg.

### Stability

Lyophilized Interleukin-7 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution IL7 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-7 Mouse Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 129 amino acids and having a molecular mass of 14.9kDa.

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