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**Product Data Sheet**


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Product Name: IL 2 Human

Cat. No.: GP20471

Batch No.: 1

**Product Data**

Purity	Greater than 97.0% as determined by:(a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE.	Source	Escherichia Coli.
Physical Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.	Shipping Condition	Shipped at Room temp.
Synonyms	T-cell growth factor (TCGF); Aldesleukin; Lymphokine; IL-2.		
Amino Acid Sequence	APTSSSTKK TQLQLEHLLL DLQMILNGIN NYKNPKLTRM LTFKFYMPKK ATELKHLQCL EEELKPLEEV LNLAQSKNFH LRPRDLISNI NVIVLELKGS ETTFMCEYAD ETATIVEFLN RWITFCQSII STLT.		
Solubility	It is recommended to reconstitute the lyophilized Interleukin-2 in sterile distilled water not less than 100µg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	The protein was lyophilized from a 0.2µm filtered concentrated solution (1.0mg/ml) in PBS, pH 5.0.		

**Introduction**

IL2 is a secreted cytokine that is important for the proliferation of T and B lymphocytes. The receptor of this cytokine is a heterotrimeric protein complex whose gamma chain is also shared by interleukin 4 (IL4) and interleukin 7 (IL7). The expression of this gene in mature thymocytes is monoallelic, which represents an unusual regulatory mode for controlling the precise expression of a single gene. The targeted disruption of a similar gene in mice leads to ulcerative colitis-like disease, which suggests an essential role of this gene in the immune response to antigenic stimuli.

**Biological Activity**

The ED50 as determined by the dose-dependent stimulation of murine CTLL-2 cells is

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

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less than 0.1 ng/ml, corresponding to a Specific Activity of  $1 \times 10^7$  IU/mg.

### Stability

Lyophilized Interleukin-2 although stable at room temperature for 3 weeks, should be stored desiccated below  $-18^{\circ}\text{C}$ . Upon reconstitution IL2 should be stored at  $4^{\circ}\text{C}$  between 2-7 days and for future use below  $-18^{\circ}\text{C}$ . For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

### Background

Interleukin-2 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 133 amino acids and having a molecular mass of 15.4kDa. The IL-2 is purified by proprietary chromatographic techniques.

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