



GRF-10557

**Recombinant Human Interleukin-2**

<b>Size:</b>	10 ug
<b>Synonyms:</b>	T-cell growth factor (TCGF), Aldesleukin, Lymphokine, IL-2.
<b>Introduction:</b>	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.
<b>Description:</b>	Interleukin-2 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 134 amino acids and having a molecular mass of 15kDa. The IL-2 is purified by proprietary chromatographic techniques.
<b>Source:</b>	Escherichia Coli.
<b>Physical Appearance:</b>	Sterile Filtered White lyophilized (freeze-dried) powder.
<b>Formulation:</b>	The protein was lyophilized from a 0.2µm filtered concentrated solution (1.0mg/ml) in PBS, pH 5.0.
<b>Solubility:</b>	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.
<b>Stability:</b>	Lyophilized Interleukin-2 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution IL2 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.
<b>Purity:</b>	Greater than 97.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.
<b>Amino acid sequence:</b>	APTSSSTKK TQLQLEHLLL DLQMILNGIN NYKNPKLTRM LTFKFYMPKK ATELKHLQCL EEELKPLEEV LNLAQSKNFH LRPRDLISNI NVIVLELKGS ETTFMCEYAD ETATIVEFLN RWITFCQSII STLT.
<b>Biological Activity:</b>	The ED <sub>50</sub> as determined by the dose-dependent stimulation of murine CTLL-2 cells is less than 0.1 ng/ml, corresponding to a Specific Activity of 1x10 <sup>7</sup> IU/mg.

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