



Technical Data Sheet

Recombinant Human Interleukin-2 (rHu IL-2)

Human Interleukin-2

Interleukin 2 is a protein that has a variety of immunologic functions, the most notable being the ability of IL-2 to promote the proliferation and maturation of activated T cells. A comparison of the amino acid sequences of human and murine IL-2 shows an approximately 60% sequence similarity, and human sequence IL-2 has been found to be active on murine cell lines. Some of the biological activities attributed to IL-2 include:

- induction of secretion of interferon- γ and tumor necrosis factors - α and - β from peripheral blood mononuclear cells
- stimulation of the rate of synthesis of c-myc RNA and transferrin receptor
- activation of neutrophils
- stimulation of proliferation and maturation of activated helper T cells
- stimulation of proliferation of activated and natural killer cells and tumor-infiltrating lymphocytes, as well as enhancement of the ability of these cytotoxic lymphocytes to kill target cells
- induction of the expression of IL-2 receptors on T cells
- stimulation of proliferation of antibody-producing B cells

Catalog Number:	RC212-13
Source:	<i>Escherichia coli</i> .
Molecular Weight:	Approximately 15 kDa, a single non-glycosylated polypeptide chain containing 134 amino acids.
Quantity:	10ug/50ug/1000 μ g
Purity:	>97% by SDS-PAGE and HPLC analyses.
Biological Activity:	Fully biologically active when compared to standard. The ED ₅₀ as determined by the dose-dependant stimulation of murine CTLL-2 cells is less than 0.1 ng/ml, corresponding to a specific activity of > 1 x 10 ⁷ units/mg.
Physical Appearance:	Sterile Filtered White lyophilized (freeze-dried) powder.
Formulation:	Lyophilized from a 0.2 μ m filtered concentrated (1mg/ml) solution in PBS, pH 7.5.
AA Sequence:	MAPTSSSTKK TQLQLEHLLL DLQMILNGIN NYKNPKLTRM LTFKFYMPKK ATELKHLOCL EELKPLEEV LNLAQSKNFH LRPRDLISNI NVIVLELKGS ETTFMCEYAD ETATIVEFLN RWITFCQSII STLT
Endotoxin:	Less than 1EU/ μ g of rHuIL-2 as determined by LAL method.



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- Reconstitution:** We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1% BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at $\leq -20^{\circ}\text{C}$. Further dilutions should be made in appropriate buffered solutions.
- Storage:** This lyophilized preparation is stable at $2-8^{\circ}\text{C}$, but should be kept at -20°C for long term storage, preferably desiccated. Upon reconstitution, the preparation is stable for up to one week at $2-8^{\circ}\text{C}$. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20°C to -70°C . Avoid repeated freeze/thaw cycles.
- Usage:** This material is offered by Bio Basic Inc for research, laboratory or further evaluation purposes. NOT FOR HUMAN USE.