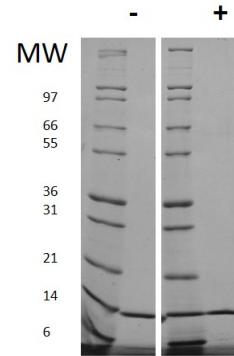
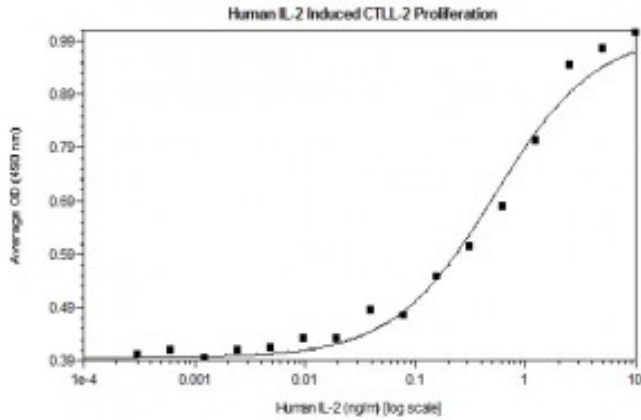


## IL2

### Recombinant Human Interleukin-2

<b>Catalog No.</b>	CRI100A CRI100B CRI100C	<b>Quantity:</b>	10 µg 50 µg 1.0 mg
<b>Alternate Names:</b>	IL-2, T-cell Growth Factor, TCGF, Lymphokine		
<b>Description:</b>	Interleukin-2 is a powerful immunoregulatory lymphokine produced by T-cells in response to antigenic or mitogenic stimulation. It is expressed by CD4+ and CD8+ T cells, γδ T cells, B cells, dendritic cells, and eosinophils. IL-2/IL-2R signaling is required for T-cell proliferation and other fundamental functions that are essential for the immune response. The receptor for IL-2 contains three subunits (55 kDa IL2Rα, 75 kDa IL2Rβ, 64 kDa common gamma chain γc/IL2Rγ) that are present on the cell surface in varying preformed complexes.		
<b>UniProt ID:</b>	P60568		
<b>Source:</b>	<i>E. coli</i>		
<b>Molecular Weight:</b>	15.5 kDa (134 aa) monomer		
<b>Formulation:</b>	Lyophilized from sterile filtered solution containing 0.1% Trifluoroacetic Acid (TFA)		
<b>Purity:</b>	≥95% by reducing and non-reducing SDS-PAGE		
<b>Endotoxin Level:</b>	≤ 0.1 EU/µg by kinetic LAL		
<b>Biological Activity:</b>	ED <sub>50</sub> ≤ 3 ng/ml, determined by the dose-dependent proliferation of mouse CTLL-2 cells. In addition, this product has been tested for primary human T cell proliferation, with a typical ED <sub>50</sub> < 1 ng/ml.		
<b>Specific Activity:</b>	≥ 3.3 x 10 <sup>5</sup> U/mg by CTLL-2 assay The WHO International Standard (NIBSC code: 86/500) for rhIL-2 was tested in the in-house assay. To convert the in-house specific activity value to specific activity in International units (IU), multiply by 0.56		
<b>Amino Acid Sequence:</b>	MAPTSSSTKK TQLQLEHLLL DLQMILNGIN NYKNPKLTRM LTFKFYMPKK ATELKHQLQCL EEELKPLEEV LNLAQSKNFH LRPRDLISNI NVIVLELKGS ETTFMCEYAD ETATIVEFLN RWITFCQSII STLT		
<b>Reconstitution:</b>	<b>Centrifuge vial prior to opening.</b> Add sterile 10 mM HCl to a concentration of 0.1 mg/mL. <b>DO NOT VORTEX.</b> Allow several minutes for complete reconstitution.		
<b>Storage &amp; Stability:</b>	Store as supplied at -20°C to -80°C for up to 1 year. Upon reconstitution, prepare working aliquots and store at -20°C to -80°C. It is recommended that a carrier protein such as 0.1% HSA or BSA is added for long term storage. <b>Avoid repeated freeze-thaw cycles.</b>		





#### Human IL-2

Figure: 1 ug in each lane (-) non-reducing conditions and (+) reducing conditions in a 4-20% Tris-Glycine gel, stained with Coomassie Blue. Human IL-2 has a predicted MW of 15.5 kDa.

**NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.**



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