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IL2
Recombinant Human Interleukin-2 (C126S) Animal Free

Catalog No.	CRI101A-AF	**Quantity:**	50 µg
	CRI101B-AF		100 µg
	CRI101C-AF		1.0 mg

Alternate Names: IL-2, T-cell Growth Factor, TCGF, Aldesleukin, Lymphokine

Description: 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.

Amino acid sequence includes C126S, identical to aldesleukin.

UniProt ID: P60568

Source: *E. coli*
Made without animal-derived components in an animal-free facility.

Molecular Weight: 15.5 kDa (134 aa) monomer

Formulation: Lyophilized from sterile filtered solution containing 0.1% Trifluoroacetic Acid (TFA)

Purity: ≥97% by reducing and non-reducing SDS-PAGE, Coomassie staining

Endotoxin Level: ≤ 0.01 EU/µg by kinetic LAL

Biological Activity: ED_{50} ≤ 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_{50} < 1 ng/ml.

Amino Acid Sequence: MAPTSSSTKK TQLQLEHLLL DLQMILNGIN NYKNPKLTRM LTFKFYMPKK ATELKHLQCL EEELKPLEEV LNLAQSKNFH LRPRDLISNI NVIVLELKGS ETTFMCEYAD ETATIVEFLN RWITFSQSII STLT

Reconstitution: **Centrifuge vial prior to opening.** Add sterile 10 mM HCl to a concentration of 0.1 mg/mL. **DO NOT VORTEX.** Allow several minutes for complete reconstitution.

Storage & Stability: 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.
Avoid repeated freeze-thaw cycles.

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

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