

IL15

Recombinant Human Interleukin-15

Catalog No.	CRI137A	Quantity:	2 µg
	CRI137B		10 µg
	CRI137C		1.0 mg

Alternate Names: IL-15, IL-T

Description: Interleukin 15 is a cytokine that shares many biological properties with IL-2, including T, B and NK cell-stimulatory activities. Human IL-15 shares approximately 97% and 73% sequence identity with simian and murine IL-15, respectively. Both human and simian IL-15 are active on murine cells. Human IL-15 cDNA encodes a 162 amino acid residue precursor protein containing a 48 amino acid residue signal peptide that is cleaved to yield the 114 amino acid residue mature protein. The IL-15 mRNA is expressed by a wide variety of cells and tissues and is most abundantly expressed by adherent peripheral blood mononuclear cells, fibroblasts and epithelial cells. However, in activated peripheral blood T lymphocytes where IL-2 is highly expressed, the expression of IL-15 is not detectable. Although IL-15 lacks sequence homology with IL-2, it has recently been shown that both the beta and gamma chains of the IL-2 receptor are utilized for IL-15 binding and signaling.

GenelD: 3600

UniProtKB: P40933

Source: *E. coli*

Molecular Weight: Monomer, 12.9 kDa (115aa)

Formulation: Lyophilized from a 0.2µm filtered concentrated solution containing 10 mM sodium bicarbonate, pH 8.0

Purity: ≥ 95% by reducing and non-reducing SDS-PAGE

Endotoxin Level: 0.647 EU/µg

Biological Activity: Fully biologically active when compared to standard. The ED₅₀ determined by a cell proliferation assay using murine CTLL-2 cells is 50 pg/mL.

Specific Activity: 2.0 x 10⁷ U/mg

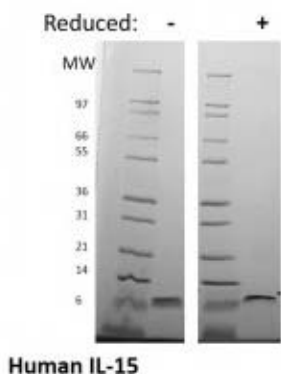
Amino Acid Sequence: MNWVNVISDL KKIEDLIQSM HIDATLYTES DVHPSCKVTA MKCFLELQV
ISLESGDASI HDTVENLIL ANNSLSSNGN VTESGCKECE ELEEKNIKEF
LQSFVHIVQM FINTS

Reconstitution: **Centrifuge vial prior to opening.** Add sterile distilled water to a concentration of 0.1 mg/mL and gently pipette the solution up and down the sides of the vial. **DO NOT VORTEX.** Allow several minutes for reconstitution.



Storage & Stability: **Upon receipt**, store desiccated at -20 °C to -80 °C for up to 1 year. **Upon reconstitution** store at 2-8 °C for up to 1 month. **For long term storage** reconstitute in working aliquots containing 0.1% BSA and store at -20 °C to -80 °C. **Avoid repeated freeze-thaw cycles.**

SDS-PAGE analysis of Recombinant Human IL-15 on a 4-20% Tris-Glycine gel with Coomassie Blue staining. 1 µg in each lane (-) non-reducing and (+) reducing conditions. Human IL-15 has a predicted MW of 12.9 kDa.



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

