

IL15

Recombinant Human IL-15 (aa 49-162) His

Catalog No.	CRI205A	Quantity:	2 µg
	CRI205B		10 µg
	CRI205C		1.0 mg

Alternate Names: IL-15, MGC9721.

Description: The protein encoded by this gene is a cytokine that regulates T and natural killer cell activation and proliferation. This cytokine and interleukin 2 share many biological activities. They are found to bind common hematopoietin receptor subunits, and may compete for the same receptor, and thus negatively regulate each other's activity. The number of CD8+ memory cells is shown to be controlled by a balance between this cytokine and IL2. This cytokine induces the activation of JAK kinases, as well as the phosphorylation and activation of transcription activators STAT3, STAT5, and STAT6. Studies of the mouse counterpart suggested that this cytokine may increase the expression of apoptosis inhibitor BCL2L1/BCL-x(L), possibly through the transcription activation activity of STAT6, and thus prevent apoptosis. Two alternatively spliced transcript variants of this gene encoding the same protein have been reported. Recombinant Human Interleukin-15 His is produced in E.Coli is single, a non-glycosylated, Polypeptide chain containing 123 amino acids fragment (49-162) having a total molecular weight of 13.9 kDa with an C-terminal hexahistidine tag. The IL-15 His is purified by proprietary chromatographic techniques.

GenelD: 3600

Source: *E. coli*

Molecular Weight: 13.9 kDa

Formulation: IL-15 His is supplied in 20 mM Tris HCL, pH 8 + 50% glycerol.

Purity: Greater than 95.0% as determined by SDS-PAGE.

Physical Appearance: Sterile Filtered clear solution.

Biological Activity: Measured in a cell proliferation assay using CTLL2 mouse cytotoxic T cells. The ED₅₀ for this effect is < 2.5 ng/ml concentration corresponding to a Specific Activity of 0.4 MIU/mg.

Amino Acid Sequence: MNWVNVISDL KKIEDLIQSM HIDATLYTES DVHPSCKVTA MKCFLLELQV
ISLESGDASI HDTVENLIL ANNSLSSNGN VTESGCKECE ELEEKNIKEF
LQSFVHIVQM FINTSLEHHH HHH.

Storage & Stability: Store at 4°C if entire vial will be used within 2-4 weeks.
Store, frozen at -20°C for longer periods of time.
Please avoid freeze thaw cycles.

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

