

## IL 15 Human, His

**Description:** Interleukin-15 His Human Recombinant 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.

Catalog #: CYP5-497

For research use only.

**Synonyms:** IL-15, MGC9721.

**Source:** Escherichia Coli.

**Physical Appearance:** Sterile Filtered clear solution.

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

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

**Formulation:**

IL-15 His is supplied in 20mM Tris-HCl buffer (pH 8.0) 0.2mM PMSF and 10% glycerol.

**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.

**Usage:**

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

**Introduction:**

The protein encoded by this gene is a cytokine that regulates T and natural killer cell activation and proliferation. This cytokine and interleukine 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.

**Biological Activity:**

Measured in a cell proliferation assay using CTLL2 mouse cytotoxic T cells. The ED50 for this effect is <math>2.5\text{ng/ml}</math>, corresponding to a Specific Activity of 400,000units/mg.

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