

Recombinant Human IL15

Cat. No. IL15-26858TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Highly pure (>98%) recombinant hIL-15 (human Interleukin-15)
Species	Human
Source	E.coli
Description	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 others 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. Alternatively spliced transcript variants of this gene have been reported.
Tissue specificity	Most abundant in placenta and skeletal muscle. It is also detected in the heart, lung, liver and kidney. IL15-S21AA is preferentially expressed in tissues such as testis and thymus.
Form	Lyophilised
Storage	Store at +4°C short term (1-2 weeks). Aliquot and store at -20°C or -80°C. Avoid

 Tel: 1-631-559-9269 1-516-512-3133

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repeated freeze / thaw cycles.

Sequences of amino acids

Recombinant Human IL-15 is a 12.9 kDa protein containing 114 amino acid residues:
MNWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCCKVTAMKCFLELQVISHESGDT
DIHDTVENL IILANNILSSNGNITESGCKECEELEEKNIKEFLQSFVH IVQMFINTS

Sequence Similarities

Belongs to the IL-15/IL-21 family.

GENE INFORMATION

Gene Name IL15 interleukin 15 [Homo sapiens]

Official Symbol IL15

Synonyms IL15; interleukin 15; interleukin-15; IL 15; MGC9721;

Gene ID 3600

mRNA Refseq NM_000585

Protein Refseq NP_000576

MIM 600554

Uniprot ID P40933

Chromosome Location 4q31

Pathway

Cytokine-cytokine receptor interaction, organism-specific biosystem; Cytokine-cytokine receptor interaction, conserved biosystem; Cytokines and Inflammatory

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Response, organism-specific biosystem; HTLV-I infection, organism-specific biosystem; HTLV-I infection, conserved biosystem;

Function

cytokine activity; cytokine receptor binding; protein binding; signal transducer activity;

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