

Active Recombinant Human IL15, HlgG1 Fc-tagged

Cat. No. IL15-006H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	The extracellular domain of human IL-15(NP_751914.1)(Asn49-Ser162) including mutations at Q149D and Q156D is fused to the N-terminus of the Fc region of human IgG1 was expressed in CHO cell.
Species	Human
Source	CHO
ProteinLength	49-162 a.a.
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 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. Alternatively spliced transcript variants of this gene have been reported
Form	Lyophilized from 0.2µm-filtered solution in PBS.
Bio-activity	This mutant IL-15/Fc fusion protein specifically binds to the IL-15R, competitively

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	inhibits IL-15-triggered cell proliferation, promotes transplant tolerance, does not activate the STATsignaling pathway, and exerts a prolonged circulating half-life cause
Molecular Mass	41 KDa (monomer)
AA Sequence	Asn49-Ser162
Purity	>98%, by SDS-PAGE under reducing conditions.
Stability	Stable for at least 1 year after receipt when stored at -20°C. Working aliquots are stable for up to 3 months when stored at -20°C.
Reconstitution	Reconstitute at 100µg/ml in sterile PBS.
Warning	Avoid freeze/thaw cycles.

GENE INFORMATION

Gene Name	IL15 interleukin 15 [Homo sapiens]
Official Symbol	IL15
Synonyms	IL15; interleukin 15; interleukin-15; IL 15; MGC9721; IL-15;
Gene ID	3600
mRNA Refseq	NM_000585
Protein Refseq	NP_000576
MIM	600554

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UniProt ID	P40933
Chromosome Location	4q31
Pathway	Cytokine-cytokine receptor interaction, organism-specific biosystem; Cytokine-cytokine receptor interaction, conserved biosystem; Cytokines and Inflammatory Response, organism-specific biosystem; HTLV-I infection, organism-specific biosystem; HTLV-I infection, conserved biosystem; Herpes simplex infection, organism-specific biosystem; Herpes simplex infection, conserved biosystem;
Function	cytokine activity; cytokine receptor binding; protein binding;

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