

Recombinant Human IL15RA/IL15 Complex Protein, Fc-tagged

Cat. No. IL15RA/IL15-81H **Lot. No.** (See product label)

SPECIFICATION

Product Overview Recombinant Human IL-15 Ra & IL-15 fusion protein is produced by our Mammalian expression system and the target gene encoding Ile31-Asp96&Asn49-Ser162 is expressed with a Fc tag at the C-terminus.

Species Human

Source Human Cells

ProteinLength 31-96;49-162 a.a.

Description Interleukin-15 receptor subunit alpha, also known as Il15ra, is a high-affinity receptor for interleukin-15. Il15ra associates as a heterotrimer with the IL-2 receptor beta and gamma subunits (Common gamma chain, or gamma c) to initiate signal transduction. It can signal both in cis and trans where IL15R from one subset of cells presents IL15 to neighboring IL2RG-expressing cells. Il15ra is expressed in special cells including a wide variety of Tand B cells and non-lymphoid cells. Human Il15ra shares 45% amino acid sequence homology with the mouse form of the receptor. Eight isoforms of IL-15 R alpha mRNA have been identified, resulting from alternative splicing events involving different exons. Interleukin 15 (IL-15) is a cytokine that regulates T cell and natural killer cell activation and proliferation. IL-15 binds to the alpha subunit of the IL15 receptor (IL-15RA) with high affinity. IL-15 also binds to the beta and gamma chains of the IL-2 receptor, but not the alpha subunit of the IL2 receptor. IL-15 is structurally and functionally related to IL-2. Both cytokines share some subunits of receptors, allowing them to compete for and negatively regulate each other's activity.

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The number of CD8+ memory T cells is controlled by a balance between IL-15 and IL-2. Despite their many overlapping functional properties, IL-2 and IL-15 are, in fact, quite distinct players in the immune system. IL-15 is constitutively expressed by a wide variety of cell types and tissues, including monocytes, macrophages and DCs.

Form	Lyophilized from a 0.2 um filtered solution of 20mM PB, 150mM NaCl, pH 7.4.
AA Sequence	Ile31-Asp96&Asn49-Ser162
Endotoxin	Less than 0.1 ng/ug (1 EU/ug).
Shipping	Ambient

GENE INFORMATION

Gene Name	IL15RA interleukin 15 receptor subunit alpha [Homo sapiens (human)]
Official Symbol	IL15RA
Synonyms	Interleukin-15; IL-15; IL-15 receptor subunit alpha; IL-15RA; IL-15R-alpha; interleukin-15 receptor subunit alpha; CD215
Gene ID	3601
mRNA Refseq	NM_001243539.2
Protein Refseq	NP_001230468.1
MIM	601070
UniProt ID	Q13261&P40933

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