

Recombinant Human Interleukin 15 Receptor, Alpha, Fc-His

Cat. No. IL15RA-1653H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human IL15RA was expressed in Sf 21 cells using a baculovirus expression system. The DNA sequence encoding the extracellular domain of human IL-15 R α Δ E3, which lacks exon 3, was fused to the 6X his tagged Fc of human IgG1.
Species	Human
Source	Sf21 Cells
Description	Interleukin 15 receptor, alpha subunit is a subunit of the interleukin 15 receptor. IL15RA is a cytokine receptor that specifically binds IL15 with high affinity. The receptors of IL15 and IL2 share two subunits, the IL2R beta and IL2R gamma chains. This forms the basis of many overlapping biological activities of IL15 and IL2. IL15RA is structurally related to IL2R alpha, but is capable of binding IL15 with high affinity independent of other subunits, which suggests the distinct roles between IL15 and IL2. This receptor is reported to enhance cell proliferation and expression of apoptosis inhibitor BCL2L1/BCL2-XL and BCL2.
Molecular Weight	The predicted molecular weight of Recombinant Human IL-15 R α /Fc is Mr 42.6 kDa. However, the actual molecular weight as observed by migration on SDS Page is Mr 60-70 kDa.
State Of Matter	Lyophilized.
Purity	>95% by SDS Page and analyzed by silver stain.

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Formulation	This recombinant protein was 0.2 µm filtered and lyophilized from modified Dulbecco's phosphate buffered saline (1X PBS) pH 7.2 – 7.3 with no calcium, magnesium, or preservatives.
Endotoxin	<1.0 EU/g as determined by the LAL method.
Biological Activity	The biological activity of Human IL-15 Rα was determined by its ability to block human IL-15 induced CTLL-2 proliferation. The expected ED50 for this effect is typically 0.005 - 0.015 µg/ml.
Storage And Stability	This lyophilized protein is stable for six to twelve months when stored desiccated at -20°C to -70°C. After aseptic reconstitution, this protein may be stored at 2°C to 8°C for one month or at -20°C to -70°C in a manual defrost freezer. Avoid Repeated Freeze Thaw Cycles. See Product Insert for exact lot specific storage instructions.

GENE INFORMATION

Gene Name	IL15RA interleukin 15 receptor, alpha [Homo sapiens]
Synonyms	IL15RA; interleukin 15 receptor, alpha; MGC104179; IL-15R-alpha; IL-15RA; OTTHUMP00000019021; OTTHUMP00000019022; Interleukin-15 receptor subunit alpha; Soluble interleukin-15 receptor subunit alpha; sIL-15R-alpha; sIL-15RA
Gene ID	3601
mRNA Refseq	NM_002189
Protein Refseq	NP_002180
MIM	601070

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UniProt ID	Q13261
Chromosome Location	10p15-p14
Pathway	Cytokine-cytokine receptor interaction; Jak-STAT signaling pathway
Function	cytokine receptor activity; protein binding; receptor activity

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