

Active Recombinant Mouse Il15ra Protein, Fc-tagged

Cat. No. Il15ra-360M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse IL-15 R alpha protein (Gly33 - Lys205) with a Human IgG1 Fc tag (Pro100 - Lys330) at C-terminus was expressed in Mouse myeloma cell line. Contains a small amount (10%) of free IL-15 R alpha and Fc generated by proteolytic cleavage.
Species	Mouse
Source	Mouse myeloma cell
ProteinLength	33-205 a.a.
Description	This gene encodes a cytokine receptor that specifically binds interleukin 15 (IL15) with high affinity. The receptors of IL15 and IL2 share two subunits, IL2R beta and IL2R gamma. This forms the basis of many overlapping biological activities of IL15 and IL2. The protein encoded by this gene is structurally related to IL2R alpha, an additional IL2-specific alpha subunit necessary for high affinity IL2 binding. Unlike IL2RA, IL15RA is capable of binding IL15 with high affinity independent of other subunits, which suggests distinct roles between IL15 and IL2. This receptor is reported to enhance cell proliferation and expression of apoptosis inhibitor BCL2L1/BCL2-XL and BCL2. Multiple alternatively spliced transcript variants of this gene have been reported.
Form	Disulfide-linked homodimer
Bio-activity	Measured by its ability to block human IL-15-induced proliferation of

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	CTLL-2 mouse cytotoxic T cells. The ED50 for this effect is 0.1-0.5 ng/mL in the presence of 0.1 ng/mL recombinant human IL-15.
Molecular Mass	44.9 kDa
N-terminal Sequence Analysis	Gly33
Endotoxin	< 0.1 EU/μg of the protein by the LAL method.
Purity	> 90% by SDS-PAGE under reducing conditions and visualized by silver stain
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -70 centigrade under sterile conditions after reconstitution.
Storage Buffer	Lyophilized from a 0.2 μm filtered solution in PBS.
Reconstitution	Reconstitute at 100 μg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature.

GENE INFORMATION

Gene Name	IL15ra interleukin 15 receptor, alpha chain [Mus musculus (house mouse)]
Official Symbol	IL15ra
Synonyms	IL15ra; interleukin 15 receptor, alpha chain; IL-15RA; AA690181; interleukin-15 receptor subunit alpha; IL-15 receptor subunit alpha; IL-15R-alpha

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Gene ID	16169
mRNA Refseq	NM_008358
Protein Refseq	NP_032384
UniProt ID	Q60819

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