

Active Recombinant Mouse Interleukin 5 Receptor, Alpha, Fc-tagged

Cat. No. Il5ra-5663M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Il5ra protein was expressed in Murine myeloma cell line with the Fc part of Human IgG1 Pro100-Lys330 (C-terminus) and Mouse Il5ra Asp18-His339 (N-terminus).
Species	Mouse
Source	Mammalian Cells
Protein Length	18-339 a.a.
Description	Il5ra is a 60 kDa hematopoietin receptor that plays a dominant role in eosinophil biology. Mature mouse Il5ra consists of a 322 amino acid (aa) extracellular domain (ECD) with a WSxWS motif and a four cysteine motif, a 22 aa transmembrane segment, and a 54 aa cytoplasmic domain. Within the ECD, mouse Il5ra shares 71% and 86% aa sequence identity with human and rat Il5ra, respectively. Alternative splicing of mouse Il5ra generates soluble secreted forms which function as IL-5 antagonists.
Form	Lyophilized from a 0.2 µm filtered solution in PBS.
N-terminal Sequence	Asp18
Molecular Weight	63.2 kDa (monomer)
Activity	Measured by its binding ability in a functional ELISA. When 0.5 µg/mL of

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Recombinant Mouse IL5ra/CD125 Fc Chimera is immobilized onto a goat anti-human IgG Fc antibody coated plate, the concentration of biotinylated recombinant mouse IL-5 that produces 50% of the optimal binding response is found to be approximately 4-16 ng/mL.

Endotoxin Level <1.0 EU per 1 µg of the protein by the LAL method.

SDS-PAGE 75-85 kDa, reducing conditions.

Purity >95%, by SDS-PAGE under reducing conditions and visualized by silver stain.

Reconstitution 100 µg/mL in sterile PBS

Storage Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70°C as supplied. 1 month, 2 to 8°C under sterile conditions after reconstitution. 3 months, -20 to -70°C under sterile conditions after reconstitution.

GENE INFORMATION

Gene Name IL5ra interleukin 5 receptor, alpha [*Mus musculus*]

Official Symbol IL5ra

Synonyms IL5ra; interleukin 5 receptor, alpha; IL5r; CD125; CDw125; interleukin-5 receptor subunit alpha; IL-5RA; IL-5R-alpha; IL-5R subunit alpha; IL-5 receptor alpha chain; IL-5 receptor subunit alpha

Gene ID 16192

mRNA Refseq NM_008370

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Protein Refseq	NP_032396
UniProt ID	P21183
Chromosome Location	6
Pathway	Cytokine Signaling in Immune system; Cytokine-cytokine receptor interaction; Hematopoietic cell lineage; IL-5 Signaling Pathway; Immune System; Inflammatory Response Pathway; Interleukin receptor SHC signaling; Interleukin-2 signaling; Interleukin-3, 5 and GM-CSF signaling; Jak-STAT signaling pathway; Signaling by Interleukins
Function	cytokine receptor activity; receptor activity
Rendering of IL5RA from PDB 1OBX	

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