

# Active Recombinant Mouse Interleukin 3 Receptor, Alpha Chain, Fc-tagged

**Cat. No.** Il3ra-5661M    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant Mouse Il3ra protein was expressed in Spodoptera frugiperda with the Fc part of Human IgG1 Pro100-Lys330 (C-terminus) and Mouse Il3ra Ser17-Lys331 (N-terminus).
<b>Species</b>	Mouse
<b>Source</b>	S. frugiperda
<b>Protein Length</b>	17-331 a.a.
<b>Description</b>	Il3ra is a pleiotropic cytokine produced primarily by activated T cells or mast cells. Il3ra stimulates the proliferation and differentiation of hemopoietic cells including the pluripotent hematopoietic stem cells as well as various lineage-committed cells. The biological effects of Il3ra on the various cell types are mediated by the binding of Il3ra to specific cell surface receptor complexes. The functional high-affinity IL-3 receptor is a heterodimer consisting of an ligand binding $\alpha$ subunit and the $\beta$ subunit. The $\alpha$ subunit alone binds Il3ra with low affinity.
<b>Form</b>	Lyophilized from a 0.2 $\mu$ m filtered solution in PBS.
<b>N-terminal Sequence</b>	Ser17
<b>Molecular Weight</b>	61.0 kDa (monomer)

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<b>Activity</b>	Measured by its ability to inhibit the IL-3-induced proliferation of NFS-60 mouse myeloid cells. The ED50 for this effect is typically 0.03-0.15 µg/mL in the presence of 2.5 µg/mL Recombinant Mouse IL-3 R $\beta$ Fc Chimera and 2 ng/mL of Recombinant Mouse Il3ra.
<b>Endotoxin Level</b>	<1.0 EU per 1 µg of the protein by the LAL method.
<b>SDS-PAGE</b>	70-80 kDa, reducing conditions.
<b>Purity</b>	>90%, by SDS-PAGE under reducing conditions and visualized by silver stain.
<b>Reconstitution</b>	100 µg/mL in sterile PBS
<b>Storage</b>	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

<b>Gene Name</b>	Il3ra interleukin 3 receptor, alpha chain [ <i>Mus musculus</i> ]
<b>Official Symbol</b>	Il3ra
<b>Synonyms</b>	Il3ra; interleukin 3 receptor, alpha chain; CD123; SUT-1; CDw123; interleukin-3 receptor subunit alpha; IL-3RA; IL-3R-alpha; IL-3 alpha subunit; IL-3R subunit alpha; IL-3 receptor alpha chain; IL-3 receptor subunit alpha; IL-3 receptor alpha SP2 isoform; interleukin-3 receptor class II alpha chain
<b>Gene ID</b>	16188
<b>mRNA Refseq</b>	NM_008369

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<b>Protein Refseq</b>	NP_032395
<b>UniProt ID</b>	P26952
<b>Chromosome Location</b>	14
<b>Pathway</b>	Apoptosis;Cytokine-cytokine receptor interaction; Hematopoietic cell lineage; IL-3Signaling Pathway; Jak-STAT signaling pathway
<b>Function</b>	cytokine receptoractivity; receptor activity

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