

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

Cat. No. IL3ra-5661M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	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).
Species	Mouse
Source	S. frugiperda
Protein Length	17-331 a.a.
Description	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 α subunit and the β subunit. The α subunit alone binds IL3ra with low affinity.
Form	Lyophilized from a 0.2 μ m filtered solution in PBS.
N-terminal Sequence	Ser17
Molecular Weight	61.0 kDa (monomer)

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Activity	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 β Fc Chimera and 2 ng/mL of Recombinant Mouse IL3ra.
Endotoxin Level	<1.0 EU per 1 µg of the protein by the LAL method.
SDS-PAGE	70-80 kDa, reducing conditions.
Purity	>90%, 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	IL3ra interleukin 3 receptor, alpha chain [<i>Mus musculus</i>]
Official Symbol	IL3ra
Synonyms	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
Gene ID	16188
mRNA Refseq	NM_008369

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

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