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

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

SPECIFICATION

Product Overview	RecombinantMouse Il3ra protein was expressed in Spodopterafrugiperdawith the Fc part of Human IgG1 Pro100-Lys330 (C-terminus) and MouseIl3ra Ser17-Lys331 (N-terminus).
Species	Mouse
Source	S.frugiperda
ProteinLength	17-331 a.a.
Description	Il3ra isa pleiotropic cytokine produced primarily by activated T cells or mast cells.Il3ra stimulates the proliferation and differentiation of hemopoietic cellsincluding the pluripotent hematopoietic stem cells as well as various lineage-committedcells. The biological effects of Il3ra on the various cell types are mediatedby the binding of Il3ra to specific cell surface receptor complexes. Thefunctional high-affinity IL-3 receptor is a heterodimer consisting of aligand binding α subunit and the β subunit. The α subunit alone binds Il3rawith low affinity.
Form	Lyophilizedfrom a 0.2 μm filtered solution in PBS.
N-terminalSequence	Ser17
MolecularWeight	61.0 kDa (monomer)

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Activity	Measuredby its ability to inhibit the IL-3-induced proliferation of NFS-60 mouse myeloidcells. The ED50 for this effect is typically 0.03-0.15 μg/mL in the presenceof 2.5 μg/mL Recombinant Mouse IL-3 Rβ Fc Chimera and 2 ng/mL of RecombinantMouse Il3ra.
Endotoxin Level	<1.0EU per 1μg of the protein by the LAL method.
SDS-PAGE	70-80kDa, reducing conditions.
Purity	>90%,by SDS-PAGE under reducing conditions and visualized by silver stain.
Reconstitution	100 μg/mLin sterile PBS
Storage	Use amanual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70°C as supplied. 1month, 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 [Mus musculus]
Official Symbol	Il3ra
Synonyms	Il3ra; interleukin 3receptor, 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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