# Active Recombinant Mouse Il3ra Protein, Fc-tagged, Alexa Fluor 488 conjugated

**Cat. No.** Il3ra-5661MAF488 **Lot. No.** (See product label)

## SPECIFICATION

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| **Product Overview** | Alexa Fluor 488 conjugated recombinant mouse 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** | Insect Cells |
| **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** | Lyophilized |
| **Bio-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 |

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| | RecombinantMouse Il3ra. |
| **Molecular Mass** | 61.0 kDa (monomer); SDS-PAGE: 70-80kDa, reducing conditions. |
| **N-terminal Sequence Analysis** | Ser 17 |
| **Endotoxin** | < 1.0 EU/ μg of the protein by the LAL method. |
| **Purity** | > 90 % by SDS-PAGE and analyzed by silver stain |
| **Characteristic** | Disulfide-linked homodimer<br>Labeled with Alexa Fluor 488 via amines<br>Excitation Wavelength: 488 nm<br>Emission Wavelength: 515-545 nm |
| **Storage** | Use a manual defrost freezer and avoid repeated freeze-thaw cycles.<br>12 months from date of receipt, -20 to -70 centigrade as supplied.<br>1 month, 2 centigrade under sterile conditions after reconstitution.<br>3 months, -20 to -70 centigrade under sterile conditions after reconstitution. |
| **Concentration** | 100 μg/mL |
| **Storage Buffer** | Lyophilizedfrom a 0.2 μm filtered solution in PBS. |
| **Reconstitution** | 100 μg/mL in sterile PBS |
| **Conjugation** | Alexa Fluor 488 |

## GENE INFORMATION

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| **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 |
| **Protein Refseq** | NP_032395 |
| **UniProt ID** | P26952 |

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