

## Active Recombinant Mouse Interleukin 2 Receptor, Alpha Chain, His-tagged

Cat. No. IL2ra-5654M Lot. No. (See product label)

### SPECIFICATION

#### Product Overview

Recombinant Mouse IL2ra protein was expressed in Murine myeloma cell line.Glu22-Lys236, with a C-terminal 10-His tag.

#### Species

Mouse

#### Source

Mammalian Cells

#### Protein Length

22-236 a.a.

#### Description

IL2ra is a 55 kDa type I membrane glycoprotein that belongs to the family of cytokine receptors that utilize the common gamma chain subunit. IL2ra is primarily expressed on activated T cells and on regulatory T cells (Treg). The mouse IL2ra cDNA encodes a 268 amino acid (aa) precursor that includes a 21 aa signal peptide, a 215 aa extracellular domain (ECD) with two Sushi domains, a 21 aa transmembrane segment, and an 11 aa cytoplasmic domain. Within the ECD, mouse IL2ra shares 81% and 58% aa sequence identity with rat and human IL2ra, respectively.

#### Form

Lyophilized from a 0.2 µm filtered solution in PBS.

#### N-terminal Sequence

Glu22

#### Molecular Weight

26 kDa

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|                        |  |
|------------------------|--|
| <b>Activity</b>        | Measured by its ability to inhibit the IL-2-dependent proliferation of MO7e human megakaryocytic leukemic cells. The ED50 for this effect is typically 0.1-0.4 µg/mL in the presence of 30 ng/mL of rhIL-2.  |
| <b>Endotoxin Level</b> | <1.0 EU per 1 µg of the protein by the LAL method.   |
| <b>SDS-PAGE</b>        | 40-50 kDa, reducing conditions.  |
| <b>Purity</b>          | >95%, 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. |

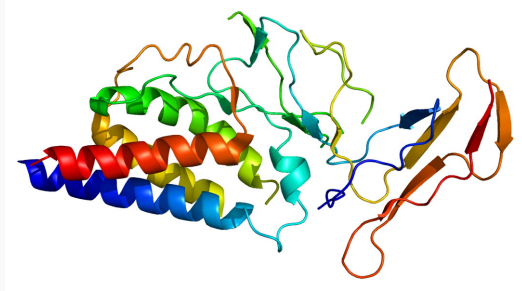
## GENE INFORMATION

|                        |  |
|------------------------|--|
| <b>Gene Name</b>       | Il2ra interleukin 2 receptor, alpha chain [ <i>Mus musculus</i> ]  |
| <b>Official Symbol</b> | Il2ra  |
| <b>Synonyms</b>        | Il2ra; interleukin 2 receptor, alpha chain; CD25; Il2r; Ly-43; interleukin-2 receptor subunit alpha; IL2-RA; IL-2-RA; p55 chain; IL-2R alpha chain; IL-2R subunit alpha; IL-2 receptor subunit alpha; Interleukin-2 receptor alpha subunit |
| <b>Gene ID</b>         | 16184  |
| <b>mRNA Refseq</b>     | NM_008367  |
| <b>Protein Refseq</b>  | NP_032393  |

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|                                     |  |
|-------------------------------------|--|
| <b>UniProt ID</b>                   | Q544I2   |
| <b>Chromosome Location</b>          | 2  |
| <b>Pathway</b>                      | Cytokine Signaling; Immune system; Cytokine-cytokine receptor interaction; Endocytosis; HTLV-1 infection; Hematopoietic cell lineage; IL-2 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; Measles; Signaling by Interleukins |
| <b>Function</b>                     | drug binding; interleukin-2 binding; interleukin-2 receptor activity; protein binding; receptor activity   |
| <b>PDB rendering based on 1z92.</b> |   |

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