

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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Activity	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.
Endotoxin Level	<1.0 EU per 1 µg of the protein by the LAL method.
SDS-PAGE	40-50 kDa, reducing conditions.
Purity	>95%, 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	Il2ra interleukin 2 receptor, alpha chain [<i>Mus musculus</i>]
Official Symbol	Il2ra
Synonyms	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
Gene ID	16184
mRNA Refseq	NM_008367
Protein Refseq	NP_032393

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UniProt ID	Q544I2
Chromosome Location	2
Pathway	Cytokine Signaling; Immune system; Cytokine-cytokine receptor interaction; Endocytosis; HTLV-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
Function	drug binding; interleukin-2 binding; interleukin-2 receptor activity; protein binding; receptor activity
PDB rendering based on 1z92.	