

Recombinant Mouse Il2ra protein, His-tagged

Cat. No. Il2ra-4021M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Il2ra (Glu22-Lys236) protein was fused to His-tag at C-terminus and expressed in human 293 cells (HEK293).
Species	Mouse
Source	HEK293
ProteinLength	Glu22-Lys236
Description	Interleukin-2 receptor subunit alpha (IL2RA) is also known as IL-2R subunit alpha, IL-2-RA, IL2-RA, TAC antigen, p55, CD antigen CD25, is a type I transmembrane glycoprotein. IL2RA is expressed on activated T cells and regulatory T cells, and is capable of binding IL2 with low affinity by itself. However, a ligand-induced high affinity heterotrimeric receptor complex is produced when IL2RA is associated non-covalently with the IL2 receptor beta and gamma chain, and subsequently initiates the intracellular signal pathways such as MAPK or JAK/STAT. On dendritic cells (DC), CD25 has been previously regarded as an activation marker, while both murine and human DC can express CD25, they do not express the beta-chain of the IL-2 receptor, which is indispensable for the execution of IL-2 signaling.
Predicted N Terminal	Glu22
Form	Lyophilized from 0.22 µm filtered solution in PBS, pH7.4, 10% trehalose.
Molecular Mass	The protein has a calculated MW of 26.6 kDa. The protein migrates as 40-60 kDa

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	under reducing (R) condition (SDS-PAGE) due to glycosylation.
Endotoxin	Less than 1.0 EU per µg by the LAL method.
Purity	>90% as determined by SDS-PAGE.
Storage	For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower. Please avoid repeated freeze-thaw cycles. This product is stable after storage at: -20 to -70 centigrade for 12 months in lyophilized state; -70 centigrade for 3 months under sterile conditions after reconstitution.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

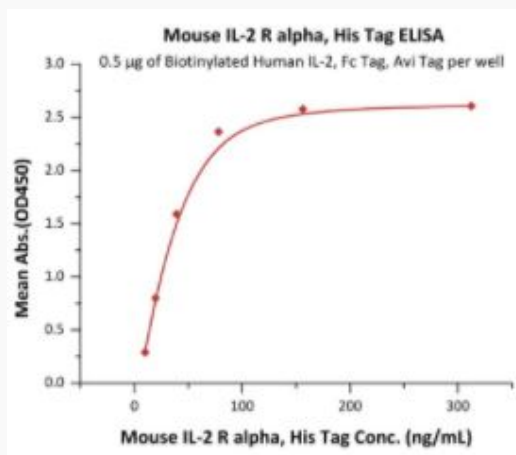
GENE INFORMATION

Gene Name	IL2ra
Official Symbol	IL2ra
Synonyms	IL2RA; interleukin 2 receptor, alpha chain; 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; CD25; IL2r; Ly-43; MGC130561
Gene ID	16184
mRNA Refseq	NM_008367
Protein Refseq	NP_032393

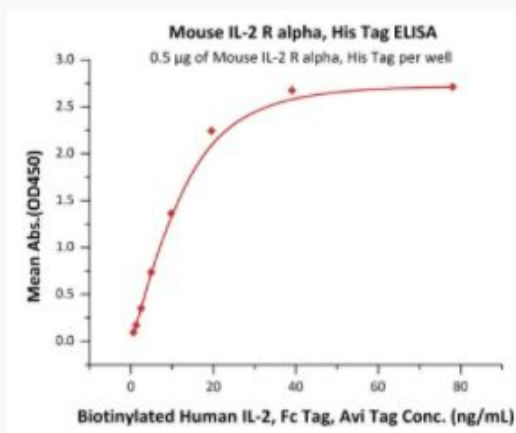
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UniProt ID
P01590
**Bioactivity-ELISA of
Il2ra-4021M**


Immobilized Biotinylated Human IL-2, Fc Tag, Avi Tag at 5 µg/mL (100 µL/well) on streptavidin precoated (0.5 µg/well) plate, can bind Mouse IL-2 R alpha, His Tag with a linear range of 5-40 ng/mL (QC tested).

Bioactivity-ELISA


Immobilized Mouse IL-2 R alpha, His Tag at 5 µg/mL (100 µL/well) can bind Biotinylated Human IL-2, Fc Tag, Avi Tag with a linear range of 0.6-10 ng/mL

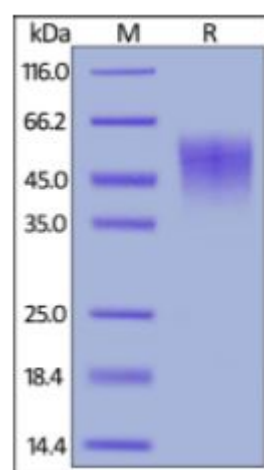
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(Routinely tested).

**SDS-PAGE of Il2ra-
4021M**



Mouse IL-2 R alpha, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 90%.

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