# Recombinant Human IL2RA protein, Fc-tagged

**Cat. No.** IL2RA-170H **Lot. No.** (See product label)

## SPECIFICATION

| | |
|---|---|
| **Product Overview** | Recombinant Human IL2RA (Glu22-Cys213) protein was fused to human IgG1 Fc tag at C-terminus and expressed in human 293 cells (HEK293). |
| **Species** | Human |
| **Source** | HEK293 |
| **ProteinLength** | Glu22-Cys213 |
| **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-covelently with the IL2 receptor beta and gamma chain, and subsequently initiates the intacellular 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 Tris with Glycine, Arginine and NaCl, pH7.5, 10% trehalose. |

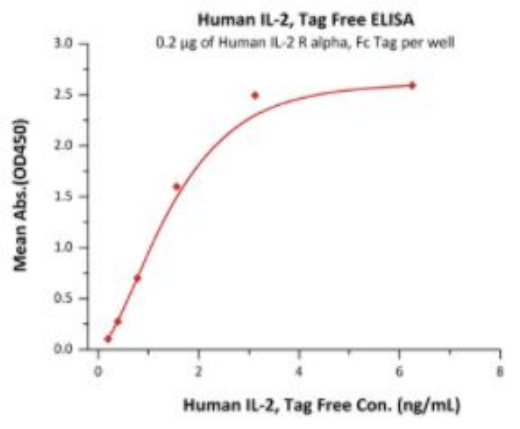
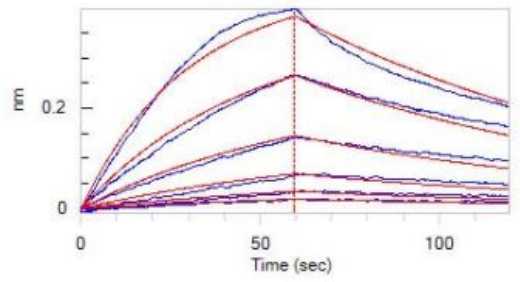
Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

| | |
|---|---|
| **Molecular Mass** | The protein has a calculated MW of 48.4 kDa. The protein migrates as 60-66 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation. |
| **Endotoxin** | Less than 1.0 EU per μg by the LAL method. |
| **Purity** | >95% as determined by SDS-PAGE. |
| **Storage** | For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower.<br>Please avoid repeated freeze-thaw cycles.<br>This product is stable after storage at:<br>-20 to -70 centigrade for 12 months in lyophilized state;<br>-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℃ before opening to recover the entire contents. |

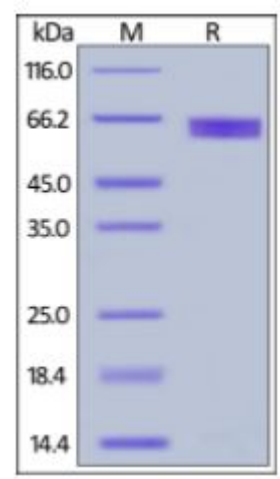
## GENE INFORMATION

| | |
|---|---|
| **Gene Name** | IL2RA |
| **Official Symbol** | IL2RA |
| **Synonyms** | IL2RA; interleukin 2 receptor, alpha; IL2R; interleukin-2 receptor subunit alpha; CD25; p55; IL2-RA; IL-2-RA; TAC antigen; IL-2R subunit alpha; IL-2 receptor subunit alpha; TCGFR; IDDM10 |
| **Gene ID** | 3559 |
| **mRNA Refseq** | NM_000417 |

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

| | |
|---|---|
| **Protein Refseq** | NP_000408 |
| **MIM** | 147730 |
| **UniProt ID** | P01589 |
| **Bioactivity-ELISA of IL2RA-170H** | <br>Immobilized Human IL-2 R alpha, Fc Tag at 2μg/mL (100 μL/well) can bind Human IL-2, Tag Free with a linear range of 0.2-1.56 ng/mL (QC tested). |
| **Bioactivity-BLI** | <br>Loaded Human IL-2 R alpha, Fc Tag on Protein A Biosensor, can bind Human IL-2, Tag Free with an affinity constant of 43.2 nM as determined in BLI assay (ForteBio Octet Red96e) (Routinely tested). |

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

| | |
|---|---|
| **SDS-PAGE of IL2RA-170H** | <br>Human IL-2 R alpha, Fc Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%. |

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA