

# Recombinant Human IL-2 R alpha/CD25 Protein

Catalog No.: RP00449 **Recombinant**

## Sequence Information

Species	Gene ID	Swiss Prot
Human	3559	P01589

### Tags

C-His&Avi

### Synonyms

CD25; IDDM10; IL-2 R alpha; IL2R; IL2RA; p55; TCGFR

## Product Information

Source	Purification
HEK293 cells	≥ 95 % as determined by SDS-PAGE; ≥ 95 % as determined by HPLC.

Calculated MW	Observed MW
24.6 kDa	40-50 kDa

### Endotoxin

< 1 EU/μg of the protein by LAL method.

### Formulation

Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.

### Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

## Contact

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## Background

Human IL-2 receptor alpha (IL-2 R alpha), also known as Tac antigen and as CD25, was initially identified as a 55 kDa membrane glycoprotein that is capable of binding IL-2 receptor for interleukin-2. The receptor is involved in the regulation of immune tolerance by controlling regulatory T cells (TREGs) activity. TREGs suppress the activation and expansion of autoreactive T-cells.

## Basic Information

### Description

Recombinant Human IL-2 R alpha/CD25 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Glu22-Cys213) of Human IL-2 R alpha/CD25 (Accession #P01589) fused with a C-His&Avi tag at the C-terminus.

### Bio-Activity

### Shipping

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

### Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

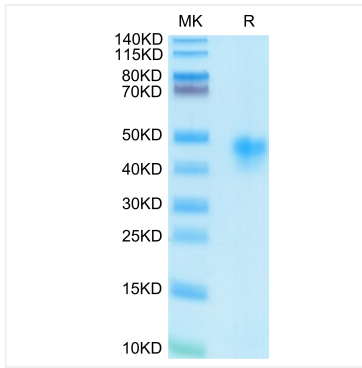
Avoid repeated freeze/thaw cycles.

### Operational Notes

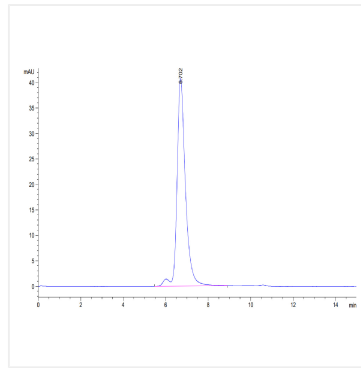
For your safety and health, please wear a lab coat and disposable gloves for handling.



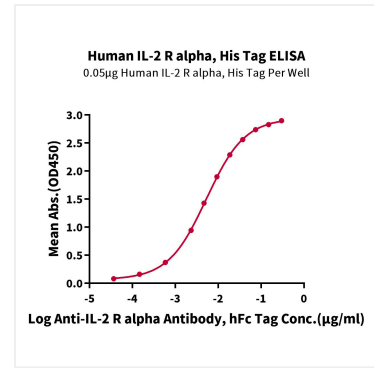
## Validation Data



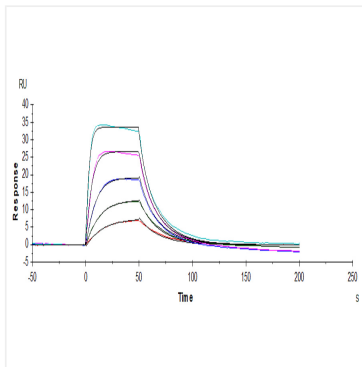
Recombinant Human IL-2 R alpha/CD25 Protein was determined by Tris-Bis PAGE under reducing conditions.



The purity of Human IL-2 R alpha is greater than 95% as determined by SEC-HPLC.



Immobilized Human IL-2 R alpha, His Tag at 0.5 µg/mL (100 µL/well) on the plate. Dose response curve for Anti-IL-2 R alpha Antibody, hFc Tag with the  $EC_{50}$  of 5.3ng/mL determined by ELISA (QC Test).



Human IL-2 R alpha, His Tag captured on CM5 Chip via anti-His antibody can bind Human IL-2, No Tag with an affinity constant of 15.2nM as determined in SPR assay (Biacore T200).