# Biotinylated Recombinant Human IL-2 R alpha /CD25 Protein

**Catalog No.: RP00449B**

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## Sequence Information

**Species**
Human

**Gene ID**
3559

**Swiss Prot**
P01589

**Tags**
C-His&Avi

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

## Product Information

**Source**
HEK293 cells

**Purification**
≥ 95 % as determined by SDS-PAGE;≥ 95 % as determined by HPLC.

**Calculated MW**
24.6 kDa

**Observed MW**
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 stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

## 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.eceptor 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**
Biotinylated 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.

**Activity**

**Shipping**
Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

**Storage**
Store at -20℃

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

**Contact**

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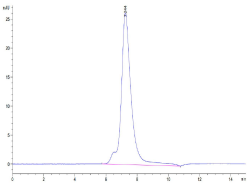
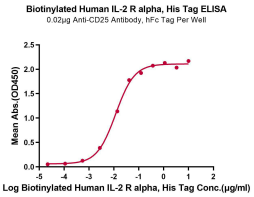
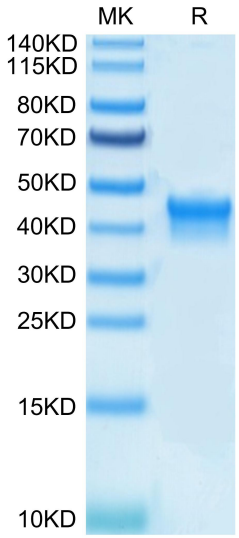
## Validation Data



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




Immobilized Anti-CD25 Antibody, hFc Tag at 0.2 μg/mL (100 μL/well) on the plate. Dose response curve for Biotinylated Human IL-2 R alpha, His Tag with the $EC_{50}$ of 11.9ng/mL determined by ELISA.




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