

Biotinylated Recombinant Human IL-2 R alpha/CD25 Protein

Catalog No.: RP00449B **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

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 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

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.

Bio-Activity

Shipping

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

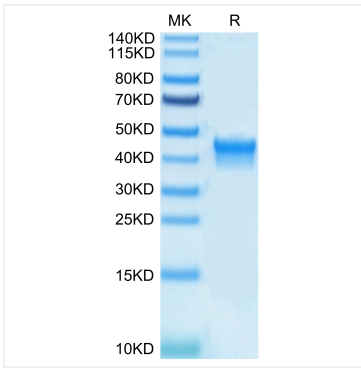
Storage

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.

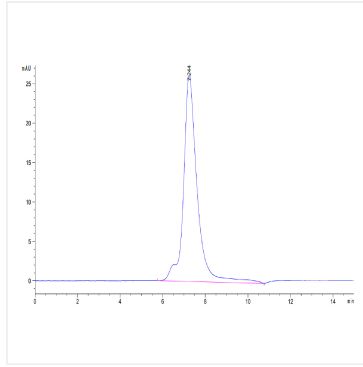
Operational Notes

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

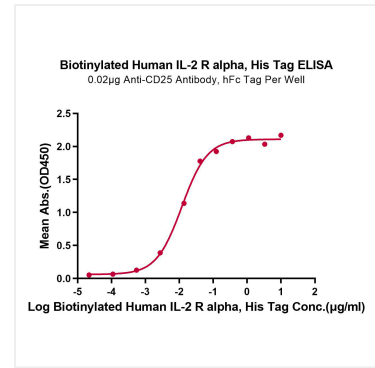
Validation Data



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



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 EC₅₀ of 11.9ng/mL determined by ELISA.