

Human IL-2 R alpha/CD25 Protein

Cat. No. CD5-HM125

Description

| | |
|-------------------------|---|
| Source | Recombinant Human IL-2 R alpha/CD25 Protein is expressed from HEK293 with His tag at the C-terminus. It contains Glu22-Cys213. |
| Accession | P01589 |
| Molecular Weight | The protein has a predicted MW of 23.35 kDa. Due to glycosylation, the protein migrates to 40-50 kDa based on Bis-Tris PAGE result. |
| Endotoxin | Less than 0.1 EU per µg by the LAL method. |
| Purity | > 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC |

Formulation and Storage

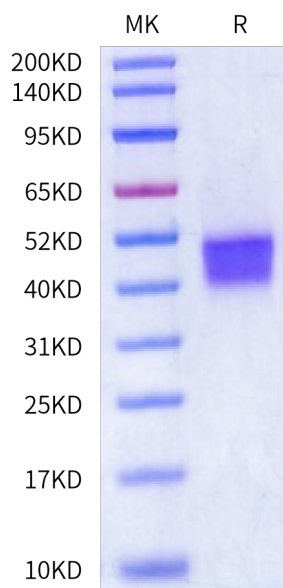
| | |
|-----------------------|---|
| Formulation | Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization. |
| Reconstitution | Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions. |
| Storage | -20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3 months after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-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 IL2.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.

Assay Data

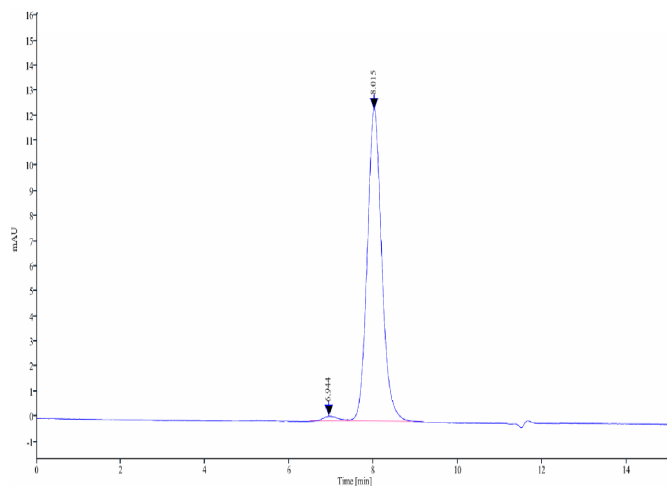
Bis-Tris PAGE



Human IL-2 R alpha on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC

Assay Data

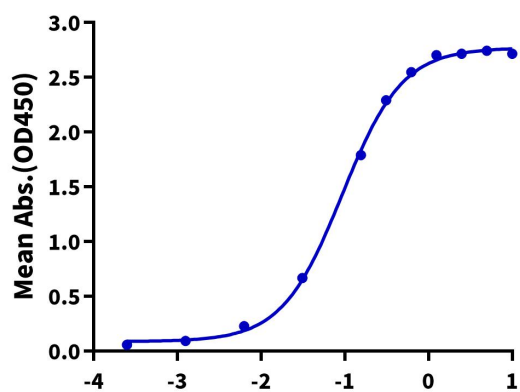


The purity of Human IL-2 R alpha is greater than 95% as determined by SEC-HPLC.

ELISA Data

Human IL-2 R alpha, His Tag ELISA

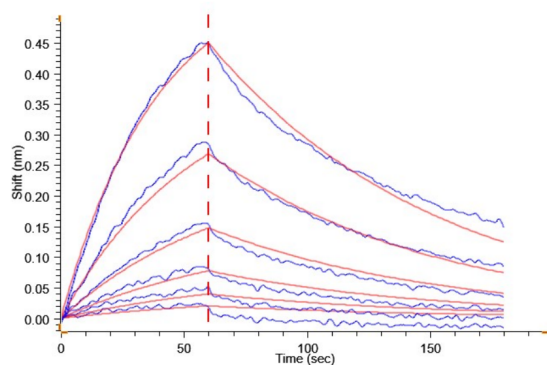
0.1µg Human IL-2 R alpha, His Tag Per Well



Immobilized Human IL-2 R alpha, His Tag at 1µg/ml (100µl/well) on the plate. Dose response curve for Biotinylated Human IL-2, His-Avi Tag (Cat. IL2-HM401B) with the EC50 of 93.3ng/ml determined by ELISA.

Log Biotinylated Human IL-2, His Avi Tag Conc.(µg/ml)

BLI Data



Loaded Biotinylated Human IL-2, His-Avi Tag (Cat. IL2-HM401B) on Streptavidin-Biosensor can bind Human IL-2 R alpha, His Tag with an affinity constant of 35.70 nM as determined in BLI assay