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### CD25 Protein (AA 22-213) (His-Avi Tag)





#### Overview

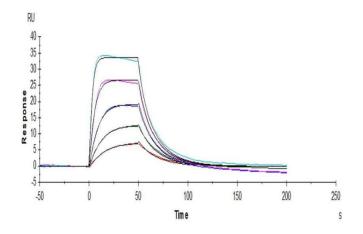
Quantity:	100 μg
Target:	CD25 (IL2RA)
Protein Characteristics:	AA 22-213
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CD25 protein is labelled with His-Avi Tag.

#### **Product Details**

Purpose:	Human IL-2 R alpha/CD25 Protein
Sequence:	Glu22-Cys213
Characteristics:	Recombinant Human IL-2 R alpha/CD25 Protein is expressed from HEK293 with His tag and Avi tag at the C-Terminus.It contains Glu22-Cys213.
Purity:	> 95 % as determined by Tris-Bis PAGE,> 95 % as determined by HPLC
Sterility:	0.22 μm filtered
Endotoxin Level:	Less than 1EU per μg by the LAL method.
Biological Activity Comment:	Immobilized Human IL-2 R alpha, His Tag at 0.2µg/ml (100µl/well) on the plate. Dose response curve for Anti-IL-2 R alpha Antibody, hFc Tag with the EC50 of 15.1ng/ml determined by ELISA. The affinity constant of 15.2nM as determined in SPR assay (Biacore T200). See testing image for detail.

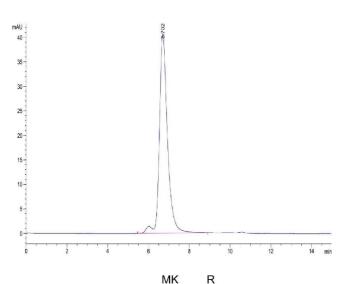
#### **Target Details**

rarget Details	
Target:	CD25 (IL2RA)
Alternative Name:	IL-2 R alpha (IL2RA Products)
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.
Molecular Weight:	24.6 kDa. Due to glycosylation, the protein migrates to 40-50 kDa based on Tris-Bis PAGE result.
UniProt:	P01589
Pathways:	JAK-STAT Signaling, Growth Factor Binding, Activated T Cell Proliferation
Application Details	
Restrictions:	For Research Use only
Handling	
Format:	Lyophilized
Reconstitution:	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 $\mu$ g/mL is recommended. Dissolve the lyophilized protein in distilled water.
Buffer:	Lyophilized from $0.22\mu m$ filtered solution in PBS ( pH $7.4$ ). Normally 8 % trehalose is added as protectant before lyophilization.
Storage:	-20 °C,-80 °C
Storage Comment:	-20 to -80°C for 12 months as supplied from date of receipt., -80°C for 3-6 months after reconstitution., 2-8°C for 2-7 days after reconstitution., Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.
Expiry Date:	12 months



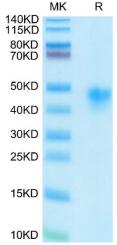
#### **Surface Plasmon Resonance**

**Image 1.** Human IL-2 R alpha/CD25, 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).



## Size-exclusion chromatography-High Pressure Liquid Chromatography

**Image 2.** The purity of Human IL-2 R alpha/CD25 is greater than 95 % as determined by SEC-HPLC.



#### **SDS-PAGE**

Please check the product details page for more images. Overall 4 images are available for ABIN7274199.