

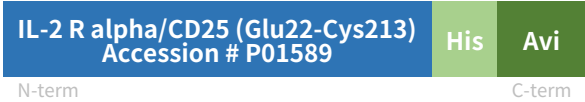
Rev04  
 Update: Aug,08,2025

**DATASHEET**

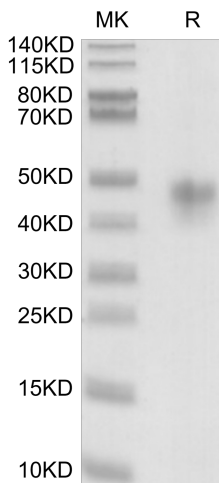
# IL-2 R alpha/CD25, His & Avi, Human

Cat. No.: Z04273

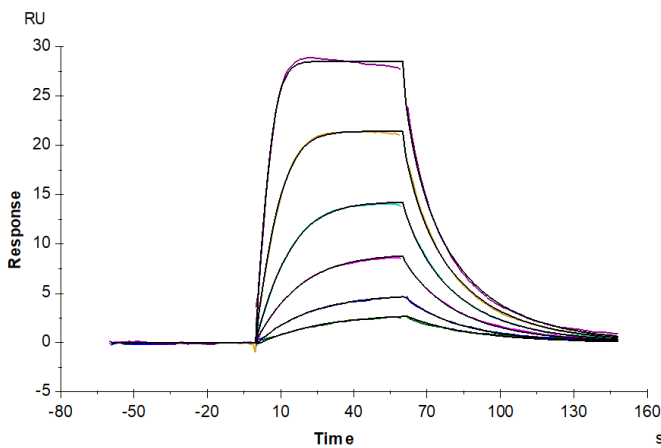
## Product Introduction

<b>Species</b>	Human
<b>Protein Construction</b>	 <p>IL-2 R alpha/CD25 (Glu22-Cys213)        Accession # P01589</p> <p>N-term His Avi C-term</p>
<b>Purity</b>	<p>&gt; 95% as determined by BisTris PAGE</p> <p>&gt; 95% as determined by HPLC</p>
<b>Endotoxin Level</b>	Less than 1EU per µg by the LAL method.
<b>Biological Activity</b>	Measured by its binding ability in a functional ELISA. Immobilized IL-2 R alpha/CD25, His & Avi, Human at 0.5µg/ml (100µl/well) on the plate can bind AntiIL2 R alpha Antibody, hFc Tag. Test result was comparable to standard batch.
<b>Expression System</b>	HEK293
<b>Theoretical Molecular Weight</b>	24.6 kDa
<b>Apparent Molecular Weight</b>	Due to glycosylation, the protein migrates to 40-50 kDa based on Bis-Tris PAGE result.
<b>Formulation</b>	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4).
<b>Reconstitution</b>	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
<b>Storage &amp; Stability</b>	Upon receiving, the product remains stable up to 6 months at -20 °C or below. Upon reconstitution, the product should be stable for 3 months at -80 °C. Avoid repeated freeze-thaw cycles.

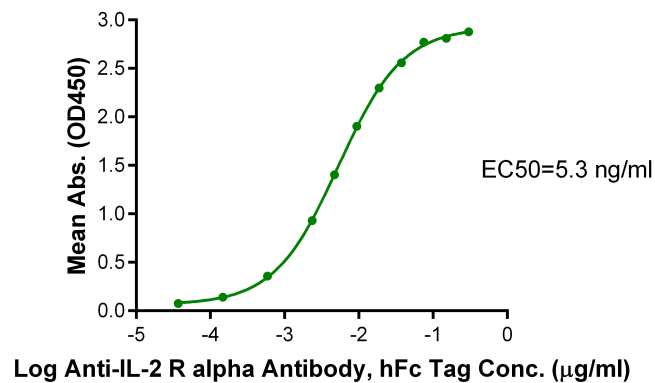
## Examples



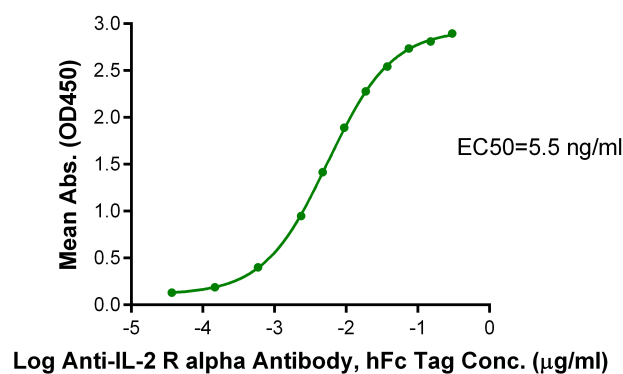
IL-2 R alpha/CD25, His & Avi, Human on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.



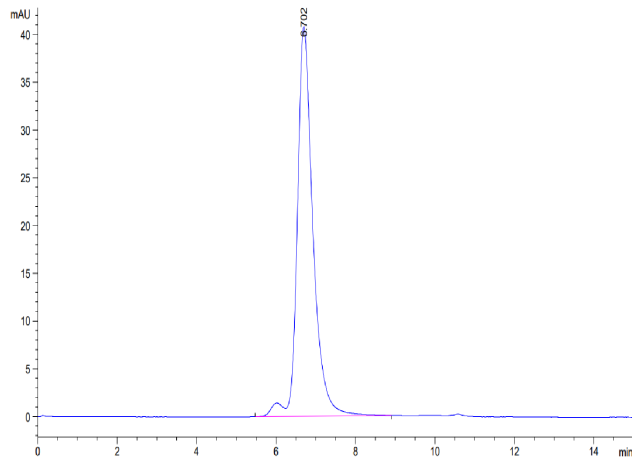
IL-2 R alpha/CD25, His & Avi, Human, His Tag captured on CM5 Chip via anti-his antibody can bind Human IL-2, No Tag with an affinity constant of 16.82 nM as determined in SPR assay (Biacore T200).



Immobilized IL-2 R alpha/CD25, His & Avi, Human, 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<sub>50</sub> of 5.3 ng/ml determined by ELISA.



Immobilized IL-2 R alpha/CD25, His & Avi, Human, 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<sub>50</sub> of 5.5 ng/ml determined by ELISA.



The purity of IL-2 R alpha/CD25, His & Avi, Human is greater than 95% as determined by SEC-HPLC.

## Background

**Target 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.

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

**For research use only. Not intended for human or animal clinical trials, therapeutic or diagnostic use.**

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