

Rev04  
Update: Aug,08,2025**DATASHEET**

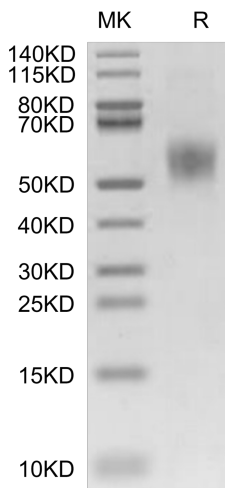
# IL-2 R alpha/CD25, His, Mouse

Cat. No.: Z04342

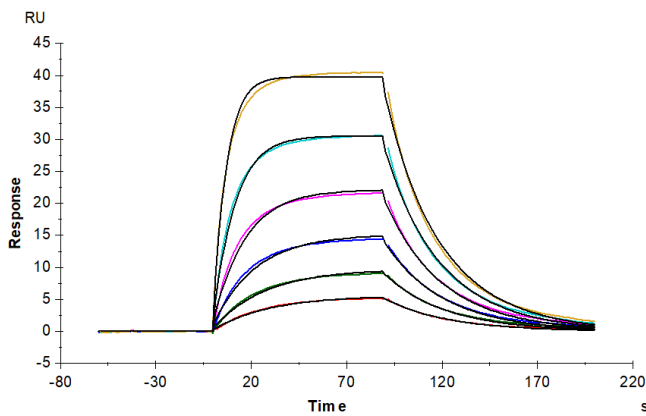
## Product Introduction

<b>Species</b>	Mouse				
<b>Protein Construction</b>	<table><tr><td>IL-2 R alpha/CD25 (Glu22-Lys236) Accession # P01590</td><td>His</td></tr><tr><td>N-term</td><td>C-term</td></tr></table>	IL-2 R alpha/CD25 (Glu22-Lys236) Accession # P01590	His	N-term	C-term
IL-2 R alpha/CD25 (Glu22-Lys236) Accession # P01590	His				
N-term	C-term				
<b>Purity</b>	> 95% as determined by BisTris PAGE > 95% as determined by HPLC				
<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, Mouse at 5µg/ml (100µl/well) on the plate can bind Biotinylated Mouse IL2, His Tag. Test result was comparable to standard batch.				
<b>Expression System</b>	HEK293				
<b>Theoretical Molecular Weight</b>	25.76 kDa				
<b>Apparent Molecular Weight</b>	Due to glycosylation, the protein migrates to 50-70 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.				

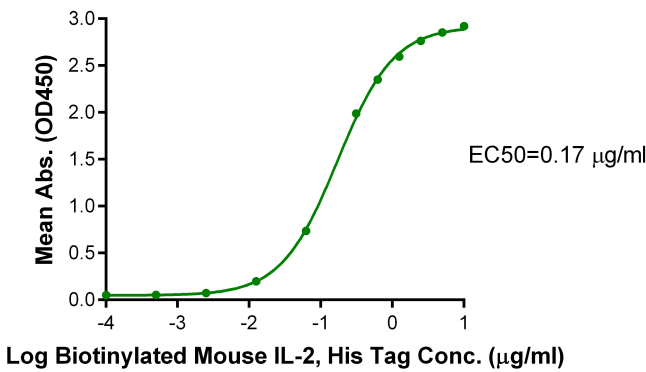
## Examples



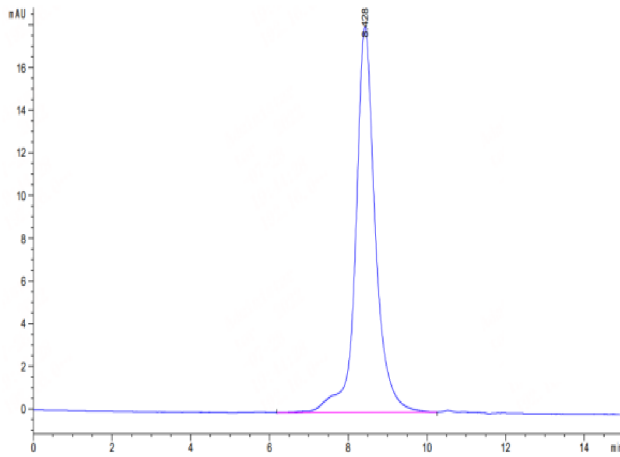
IL-2 R alpha/CD25, His, Mouse on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.



IL-2 R alpha/CD25, His, Mouse, His Tag immobilized on CM5 Chip can bind Mouse IL-2, His Tag with an affinity constant of 30.49 nM as determined in SPR assay (Biacore T200).



Immobilized IL-2 R alpha/CD25, His, Mouse, His Tag at 5 µg/ml (100 µL/well) on the plate. Dose response curve for Biotinylated Mouse IL-2, His Tag with the EC50 of 0.17 µg/ml determined by ELISA.



The purity of IL-2 R alpha/CD25, His, Mouse 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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