

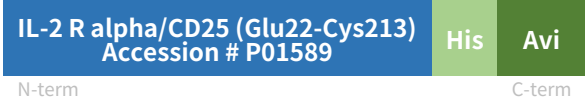
Rev03
 Update: Aug,08,2025

DATASHEET

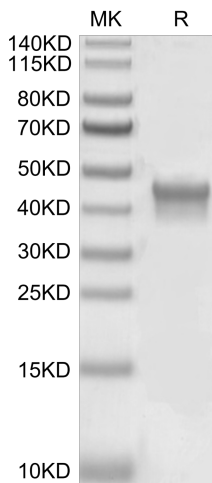
IL-2 R alpha/CD25[Biotin], His & Avi, Human

Cat. No.: Z04096

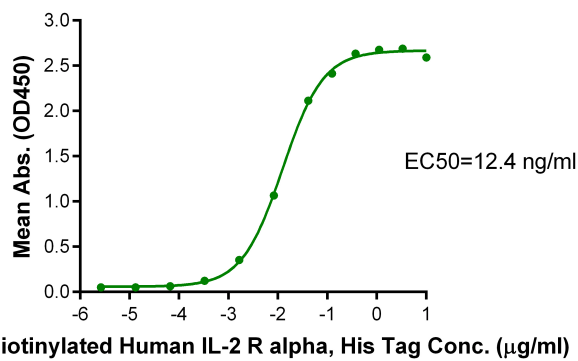
Product Introduction

Species	Human
Protein Construction	 <p>IL-2 R alpha/CD25 (Glu22-Cys213) Accession # P01589</p> <p>N-term His Avi C-term</p>
Conjugate	Biotin
Purity	<p>> 95% as determined by BisTris PAGE</p> <p>> 95% as determined by HPLC</p>
Endotoxin Level	Less than 1EU per µg by the LAL method.
Biological Activity	Measured by its binding ability in a functional ELISA. Immobilized AntiCD25 Antibody, hFc Tag at 0.2µg/ml (100µl/well) on the plate can bind IL-2 R alpha/CD25[Biotin], His & Avi, Human. Test result was comparable to standard batch.
Expression System	HEK293
Theoretical Molecular Weight	24.6 kDa
Apparent Molecular Weight	Due to glycosylation, the protein migrates to 40-50 kDa based on Bis-Tris PAGE result.
Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4).
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage & Stability	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.

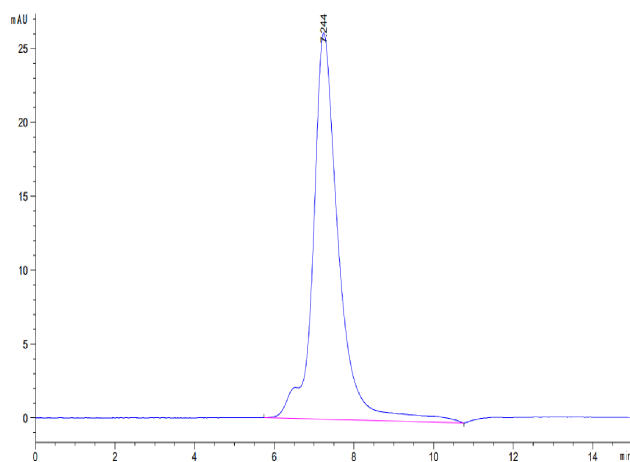
Examples



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



Immobilized Anti-IL-2 R alpha Antibody, hFc Tag at 0.2 µg/ml (100 µL/well) on the plate. Dose response curve for IL-2 R alpha/CD25[Biotin], His & Avi, Human, His Tag with the EC50 of 12.4 ng/ml determined by ELISA.



The purity of IL-2 R alpha/CD25[Biotin], 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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