

RP00448

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Recombinant Human IL-2 R beta/CD122 Protein

Catalog No.: RP00448

Recombinant

Sequence Information

Species	Gene ID	Swiss Prot
HEK293 cells	3560	P14784

Tags

C-hFc

Synonyms

CD122; IL-15 R beta; IL-2 R beta; IL-2R subunit beta; IL2RB; P70-75; p75; RP5-1170K4.6; IL-15 R β ; IL-2 R β ; IL-2R subunit β

Product Information

Source	Purification
Centrifuge the vial before opening.	$\geq 95\%$ as determined by SDS-PAGE; $\geq 95\%$ as determined by HPLC.
Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.	

Endotoxin

< 1 EU/ μ g of the protein by LAL method.

Formulation

Lyophilized from 0.22 μ m filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.

Reconstitution

Background

IL-2 R beta is a member of the cytokine receptor superfamily. Human IL-2 R beta cDNA encodes a 551 amino acid residue precursor Type I membrane protein with a 26 residue signal peptide, a 214 residue extracellular region, a 25 residue transmembrane region and a 286 residue cytoplasmic domain. Functional IL-2 receptors can exist in two affinity states on cell surfaces, the high affinity complex consisting of heterotrimers of the alpha, beta, and gamma chains, and the intermediate affinity complex comprising heterodimers of the beta and gamma chains.

Basic Information

Description

Recombinant Human IL-2 R beta/CD122 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Ala27-Asp239) of Human IL-2 R beta/CD122 (Accession #P14784) fused with a C-hFc tag at the C-terminus.

Bio-Activity

Shipping

Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

Storage

Store at -20°C
Avoid repeated freeze/thaw cycles.

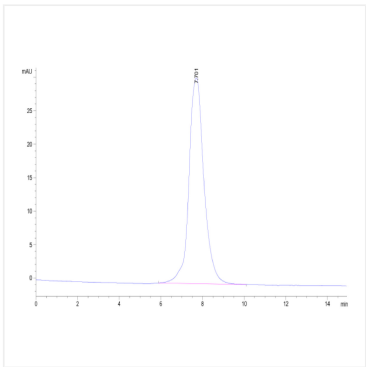
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Contact

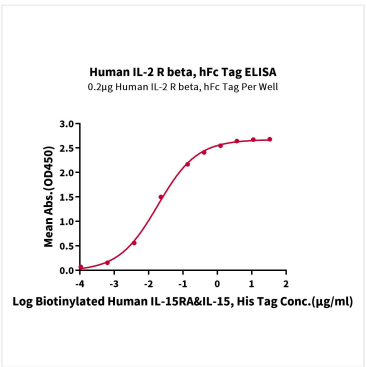


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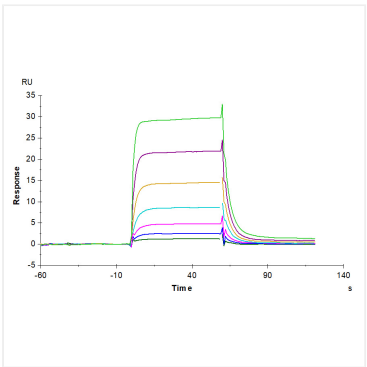
Validation Data



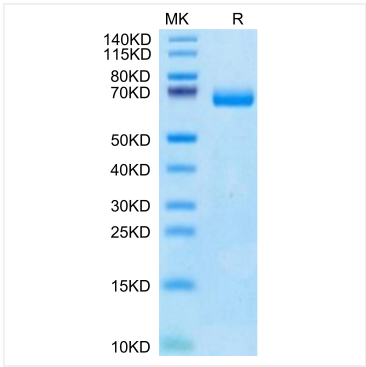
The purity of Human IL-2 R beta is greater than 95% as determined by SEC-HPLC.



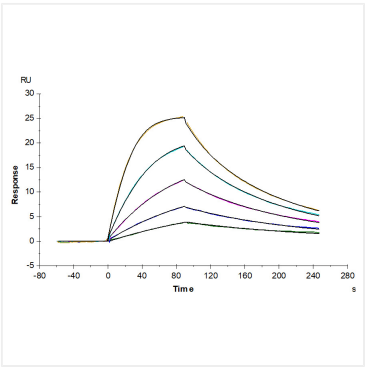
Immobilized Human IL-2 R beta, hFc Tag at 1 µg/mL (100 µL/well) on the plate. Dose response curve for Biotinylated Human IL-15Ra&IL-15, His Tag with the EC₅₀ of 18.5ng/mL determined by ELISA (QC Test).



Human IL-2 R beta, hFc Tag captured on CM5 Chip via Protein A can bind Human IL-2, No Tag with an affinity constant of 0.216 µM as determined in SPR assay (Biacore T200).



Recombinant Human IL-2 R beta/CD122 Protein was determined by Tris-Bis PAGE under reducing conditions.



Human IL-2 R beta, hFc Tag captured on CM5 Chip via Protein A can bind Human IL-15, No Tag with an affinity constant of 2.88 nM as determined in SPR assay (Biacore T200).