

Recombinant Human IL-2 R beta/CD122 Protein

Catalog No.: RP00448

Sequence Information

Species	Gene ID
Human	3560
Swiss Prot	Tags
P14784	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
HEK293 cells	≥ 95 % as determined by SDS-PAGE; ≥ 95 % as determined by HPLC.

Calculated MW	Observed MW
51.35 kDa	60-70 kDa

Endotoxin

< 1 EU/μg of the protein by LAL
method.

Formulation

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

Reconstitution

Centrifuge the vial before opening.
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.

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.

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.

Storage

Store at -20°C

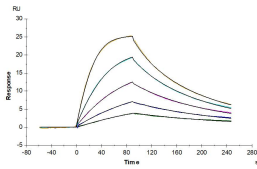
Operational Notes

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

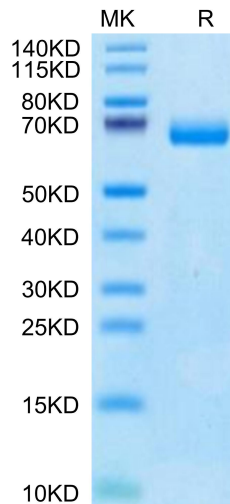
Contact

		400-999-6126
		cn.market@abclonal.com.cn
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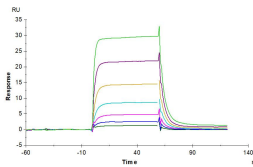
Validation Data



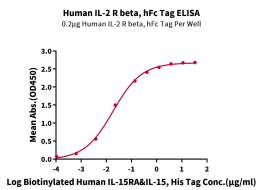
Human IL-2 R beta, hFc Tag captured on CM5 Chip via Protein A can bind Human IL-15, No Tag with an affinity constant of 2.88 nM as determined in SPR assay (Biacore T200).



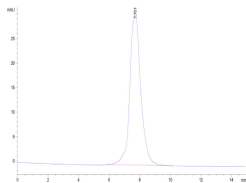
Recombinant Human IL-2 R beta/CD122 Protein was determined by Tris-Bis PAGE under reducing conditions.



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



Immobilized Human IL-2 R beta, hFc Tag at 1 μ g/mL (100 μ L/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).



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