

# Recombinant Human IL-2 R beta/CD122 Protein

Catalog No.: RP00448 Recombinant

# **Sequence Information**

Species Gene ID Swiss Prot Human 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  $\beta$ ; IL-2 R  $\beta$ ; IL-2R subunit  $\beta$ 

# **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 stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

#### Contact

<u>a</u>	400-999-6	126
$\bowtie$	cn.market@abclonal.con	n.cn

# **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

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

## Storage

Store at  $-20^{\circ}$ C. Store the lyophilized protein at  $-20^{\circ}$ C to  $-80^{\circ}$ C up to 1 year from the date of receipt.

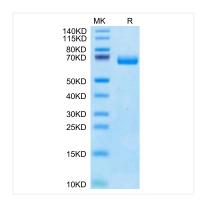
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

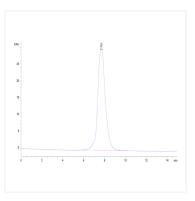
# **Operational Notes**

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

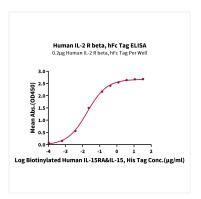
# **Validation Data**



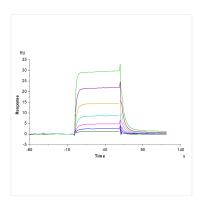
Recombinant Human IL-2 R beta/CD122 Protein was determined by Tris-Bis PAGE under reducing conditions.



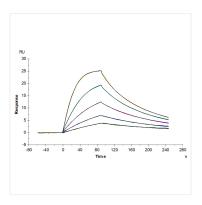
The purity of Human IL-2 R beta is greater than 95% as determined by SEC-HPLC.



Immobilized Human IL-2 R beta, hFc Tag at 1  $\mu$ g/mL (100  $\mu$ L/well) on the plate. Dose response curve for Biotinylated Human IL-15Ra&IL-15, His Tag with the EC<sub>50</sub> 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  $\mu$ M as determined in SPR assay (Biacore T200).



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).