### Human IL-2 R beta/CD122 Protein

Cat. No. CD1-HM422



Description	
Source	Recombinant Human IL-2 R beta/CD122 Protein is expressed from HEK293 with His tag and Avi tag at the C-Terminus.
	It contains Ala27-Asp239.
Accession	NP_000869
Molecular Weight	The protein has a predicted MW of 27.5 kDa. Due to glycosylation, the protein migrates to 40-50 kDa based on Tris-Bis PAGE result.
Endotoxin	Less than 1EU per μg by the LAL method.
Purity	> 95% as determined by Tris-Bis PAGE
	> 95% as determined by HPLC
Formulation and	d Storage
	Lyophilized from 0.22um filtered solution in DRS (nH.7.4). Normally 8% trabalose is added as protectant before

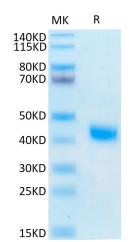
Formulation	lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 $\mu$ g/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of receipt20 to -80°C for 3-6 months in unopened state after reconstitution. 2-8°C for 2-7 days after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-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.

### **Assay Data**

### Tris-Bis PAGE



Human IL-2 R beta on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

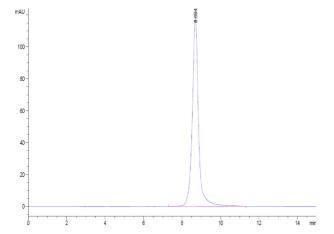
**SEC-HPLC** 

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# **Assay Data**



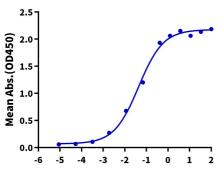
The purity of Human IL-2 R beta is greater than 95% as determined by SEC-HPLC.

# KAGTUS

### **Assay Data**

### **ELISA Data**

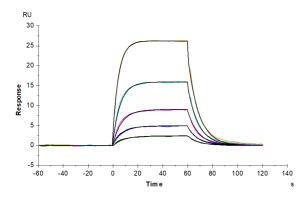
# Human IL-2 R beta, His Tag ELISA 0.2μg Human IL-2 R beta, His Tag Per Well



Log Biotinylated Human IL-15Ra&IL-15, hFc Tag Conc.(µg/ml)

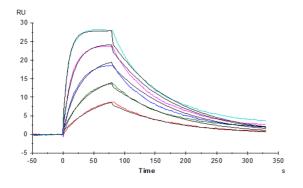
Immobilized Human IL-2 R beta, His Tag at  $2\mu g/ml$  (100 $\mu$ l/well) on the plate. Dose response curve for Biotinylated Human IL-15Ra&IL-15, hFc Tag with the EC50 of 43.7ng/ml determined by ELISA (QC Test).

### **SPR Data**



Human IL-2 R beta, His Tag captured on CM5 Chip via anti-his antibody can bind Human IL-2, No Tag with an affinity constant of 0.12  $\mu$ M as determined in SPR assay (Biacore T200).

### **SPR Data**



Human IL-2 R beta, His Tag captured on CM5 Chip via Anti-His Antibody can bind Human IL-15, No Tag with an affinity constant of 5.9nM as determined in SPR assay (Biacore T200).