Biotinylated Cynomolgus IL-2 R beta/CD122 Protein (Primary Amine Labeling)

Cat. No. CD1-CM122B

Description

Source	Recombinant Biotinylated Cynomolgus IL-2 R beta/CD122 Protein (Primary Amine Labeling) is expressed from HEK293 with His tag at the C-Terminus.
	It contains Ala27-Asp239.
Accession	Q38J85
Molecular Weight	The protein has a predicted MW of 25.6 kDa. Due to glycosylation, the protein migrates to 40-50 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1 EU per μg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE
	> 90% as determined by HPLC

Formulation and Storage

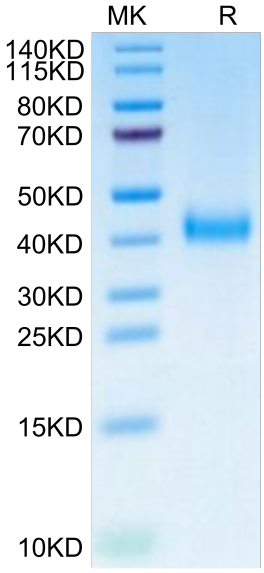
Formulation	Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-20 to -80°C for 12 months as supplied from date of receipt.-80°C for 3 months 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

Bis-Tris PAGE



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

SEC-HPLC

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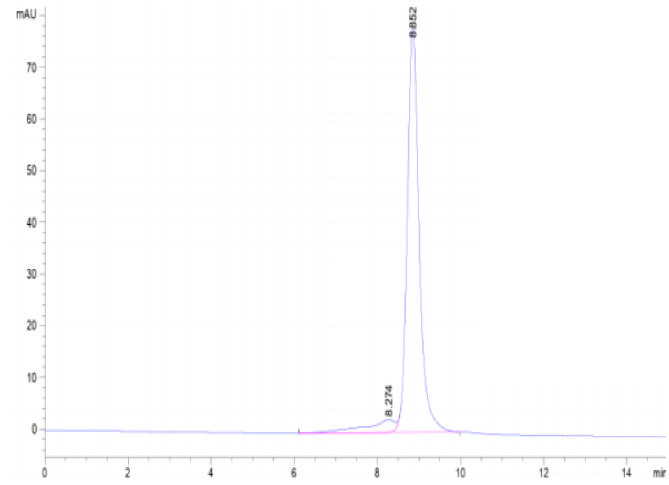
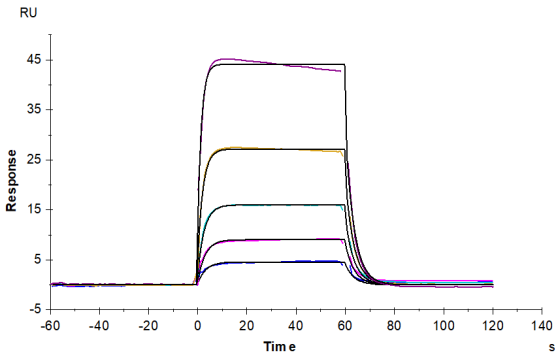
Assay Data



The purity of Biotinylated Cynomolgus IL-2 R beta is greater than 90% as determined by SEC-HPLC.

SPR Data



Biotinylated Cynomolgus 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 0.148 μM as determined in SPR assay (Biacore T200).