

Rev02
 Update: Aug,08,2025
DATASHEET

IL-2 R beta/CD122, His & Avi, Human

Cat. No.: Z04275

Product Introduction

Species	Human
Protein Construction	<div style="display: flex; align-items: center; gap: 5px;"> <div style="background-color: #0056b3; color: white; padding: 5px; text-align: center;"> IL-2 R beta/CD122 (Ala27-Asp239) Accession # NP_000869 </div> <div style="background-color: #90c17e; color: white; padding: 5px; text-align: center;">His</div> <div style="background-color: #548235; color: white; padding: 5px; text-align: center;">Avi</div> </div> <div style="display: flex; justify-content: space-between; margin-top: 5px;"> N-term C-term </div>
Purity	> 95% as determined by BisTris PAGE > 95% as determined by HPLC
Endotoxin Level	Less than 1EU per µg by the LAL method.
Biological Activity	Measured by its binding ability in a functional ELISA. Immobilized IL-2 R beta/CD122, His & Avi, Human at 2µg/ml (100µl/well) on the plate can bind Biotinylated Human IL15Ra&IL15, hFc Tag. Test result was comparable to standard batch.
Expression System	HEK293
Theoretical Molecular Weight	27.5 kDa
Apparent Molecular Weight	Due to glycosylation, the protein migrates to 40-50 kDa based on Bis-Tris PAGE result.
Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4).
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage & Stability	Upon receiving, the product remains stable up to 6 months at -20 °C or below. Upon reconstitution, the product should be stable for 3 months at -80 °C. Avoid repeated freeze-thaw cycles.

Background

Target 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.

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

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