

Synonym

IL-2 R beta & IL-2 R gamma, IL-2RB & IL-2RG

Source

Biotinylated Rhesus macaque IL-2 R beta&IL-2 R gamma Heterodimer Protein, Fc,Avitag&Fc,Avitag (ILG-R82F3) is expressed from human 293 cells (HEK293). It contains AA Ala 27 - Thr 240 & Leu 23 - Pro 255 (Accession # [NP\\_001244989.1](#) & [Q38JL2-1](#)).  
Predicted N-terminus: Ala 27 & Leu 23

Molecular Characterization

|                                            |                                         |     |
|--------------------------------------------|-----------------------------------------|-----|
| IL-2RB(Ala 27 - Thr 240)<br>NP_001244989.1 | Fc(Pro 100 - Lys 330)<br>NP_001244989.1 | Avi |
| IL-2RG(Leu 23 - Pro 255)<br>Q38JL2-1       | Fc(Pro 100 - Lys 330)<br>Q38JL2-1       | Avi |

[Other Tags and Version](#) [Biotin & Other Labeled Version](#)

Biotinylated Rhesus macaque IL-2 R beta&IL-2 R gamma Heterodimer Protein, Fc,Avitag&Fc,Avitag is produced by co-expression of IL-2RB and IL-2RG, has a calculated MW of 53 kDa (IL-2RB) and 55.4 kDa (IL-2RG). Subunit IL-2RB is fused with a human IgG1 Fc tag at the C-terminus, followed by an Avi tag (Avitag™) and subunit IL-2RG is fused with a human IgG1 Fc tag at the C-terminus, followed by an Avi tag (Avitag™). The protein migrates as 65-75 kDa and 85-95 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE) due to glycosylation.  
The protein is designed as a heterodimer.

Labeling

**Biotinylation of this product is performed using Avitag™ technology. Briefly, the single lysine residue in the Avitag is enzymatically labeled with biotin.**

Protein Ratio

Passed as determined by the HABA assay / binding ELISA.

Purity

- >90% as determined by SDS-PAGE.
- >90% as determined by SEC-MALS.

Formulation

Lyophilized from 0.22 μm filtered solution in PBS, pH7.4 with trehalose as protectant.  
Contact us for customized product form or formulation.

Reconstitution

Please see Certificate of Analysis for specific instructions.  
**For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.**

Storage

For long term storage, the product should be stored at lyophilized state at -20°C or lower.  
**Please avoid repeated freeze-thaw cycles.**  
This product is stable after storage at:

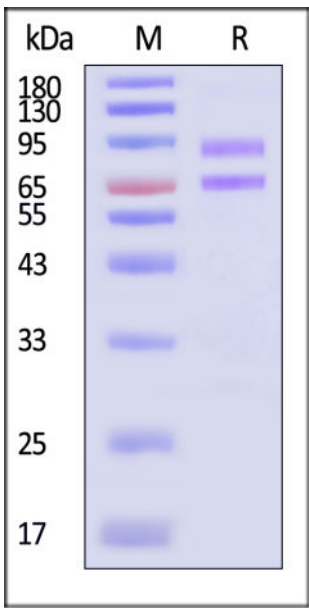
- 20°C to -70°C for 12 months in lyophilized state;
- 70°C for 3 months under sterile conditions after reconstitution.

ACRO Quality Management System

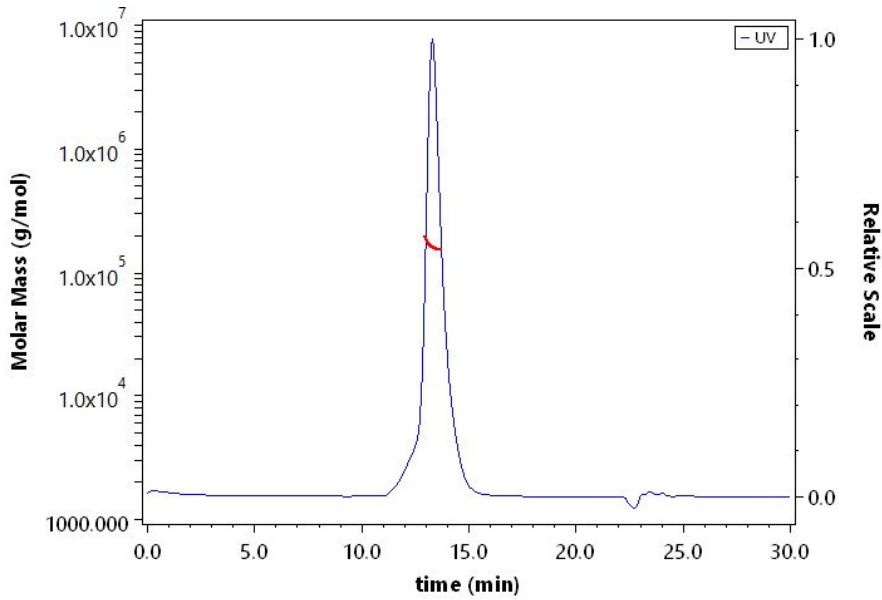
- [QMS\(ISO, GMP\)](#)
- [Quality Advantages](#)
- [Quality Control Process](#)

SDS-PAGE

SEC-MALS

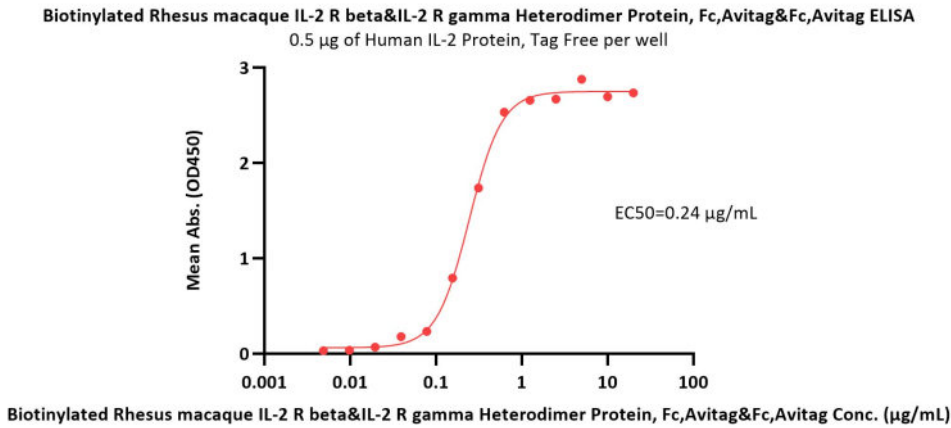


Biotinylated Rhesus macaque IL-2 R beta&IL-2 R gamma Heterodimer Protein, Fc,Avitag&Fc,Avitag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90% (With [Star Ribbon Pre-stained Protein Marker](#)).



The purity of Biotinylated Rhesus macaque IL-2 R beta&IL-2 R gamma Heterodimer Protein, Fc,Avitag&Fc,Avitag (Cat. No. ILG-R82F3) is more than 90% and the molecular weight of this protein is around 150-190 kDa verified by SEC-MALS.

## Bioactivity-ELISA



Immobilized Human IL-2 Protein, Tag Free (Cat. No. IL2-H5215) at 5 µg/mL (100 µL/well) can bind Biotinylated Rhesus macaque IL-2 R beta&IL-2 R gamma Heterodimer Protein, Fc,Avitag&Fc,Avitag (Cat. No. ILG-R82F3) with a linear range of 0.005-0.625 µg/mL (QC tested).

## Background

Both Interleukin-2 receptor subunit beta and Interleukin-2 receptor subunit gamma are receptor for interleukin-2. Common subunit for the receptors for a variety of interleukins. Interacts with SHB upon interleukin stimulation. Probably in association with IL15RA, involved in the stimulation of neutrophil phagocytosis by IL15. This beta subunit is involved in receptor mediated endocytosis and transduces the mitogenic signals of IL2. IL2R exists in 3 different forms: a high affinity dimer, an intermediate affinity monomer (beta subunit), and a low affinity monomer (alpha subunit). The high and intermediate affinity forms also associate with a gamma subunit.

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