

# Biotinylated Human IL-12 R beta 2 Protein, His,Avitag™ (MALS verified)

Catalog # ILB-H82E4



BIOSYSTEMS  
**Acro**

## Synonym

IL-12 R beta 2, IL12RB2, IL-12RB2, IL-12R-beta-2

## Source

Biotinylated Human IL-12 R beta 2 Protein, His,Avitag (ILB-H82E4) is expressed from human 293 cells (HEK293). It contains AA Lys 24 - Asn 622 (Accession # [Q99665-1](#)).

Predicted N-terminus: Lys 24

## Molecular Characterization

IL-12RB2(Lys 24 - Asn 622)  
Q99665-1

Poly-his

Avi

This protein carries a polyhistidine tag at the C-terminus, followed by an Avi tag (Avitag™).

The protein has a calculated MW of 71.7 kDa. The protein migrates as 90-100 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE) due to glycosylation.

## 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.

## 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.**

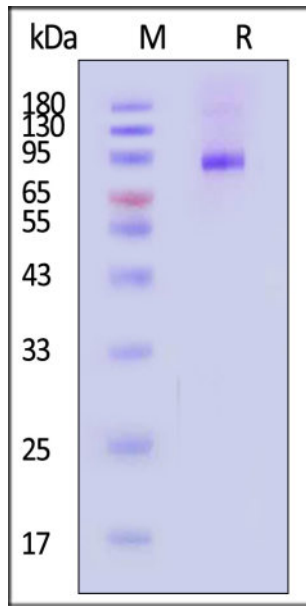
This product is stable after storage at:

- -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

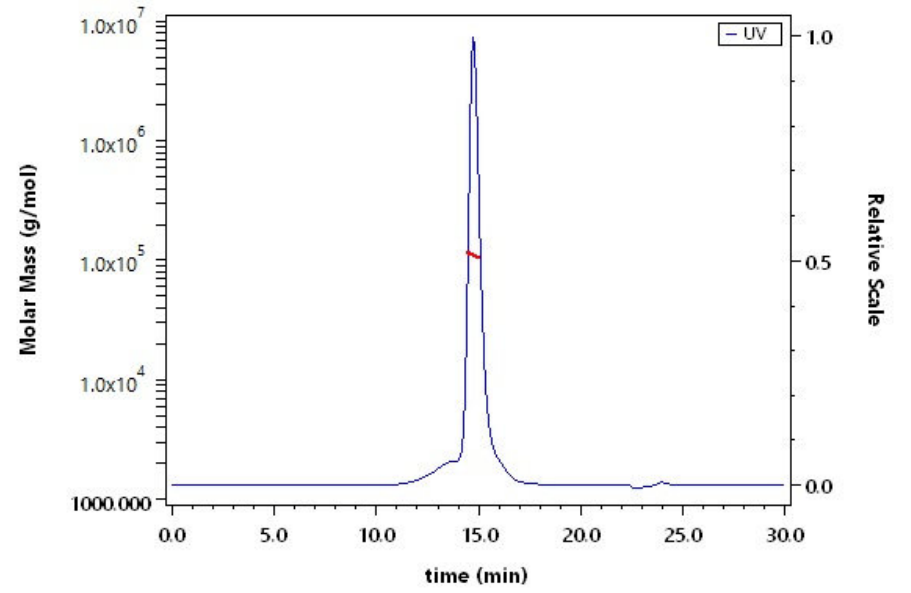
- [QMS\(ISO, GMP\)](#)
- [Quality Advantages](#)
- [Quality Control Process](#)

## SDS-PAGE



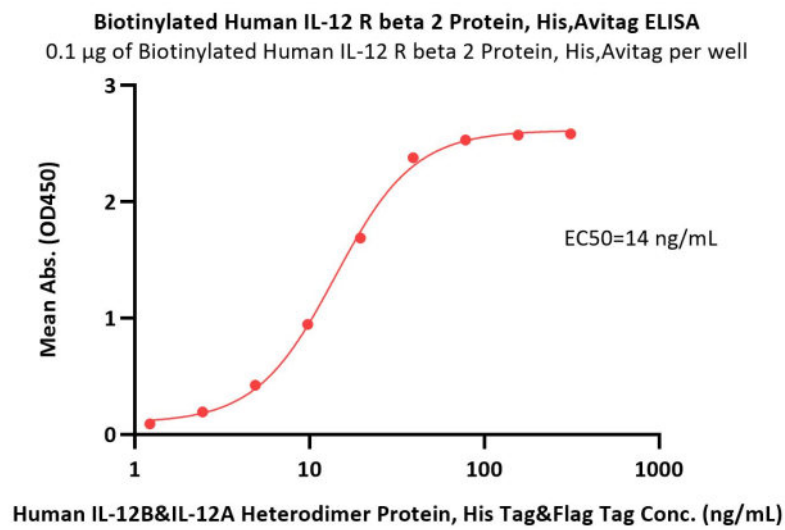
Biotinylated Human IL-12 R beta 2 Protein, His,Avitag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90% (With [Star Ribbon Pre-stained Protein Marker](#)).

## SEC-MALS



The purity of Biotinylated Human IL-12 R beta 2 Protein, His,Avitag (Cat. No. ILB-H82E4) is more than 85% and the molecular weight of this protein is around 85-115 kDa verified by SEC-MALS.

## Bioactivity-ELISA



Immobilized Biotinylated Human IL-12 R beta 2 Protein, His,Avitag (Cat. No. ILB-H82E4) at 1 µg/mL (100 µL/well) on streptavidin (Cat. No. STN-N5116) precoated (0.5 µg/well) plate can bind Human IL-12B&IL-12A Heterodimer Protein, His Tag&Flag Tag (Cat. No. IL2-H4210) with a linear range of 1.2-20 ng/mL (QC tested).

## Background

The human IL-12 R subunit is a member of the cytokine receptor superfamily and the functional high-affinity IL-12R is composed of at least two beta-type cytokine receptor subunits, each independently exhibiting a low affinity for IL-12. IL-12RB2 is the signaling component coupling to the JAK2/STAT4 pathway. Promotes the proliferation of T-cells as well as NK cells. Induces the promotion of T-cells towards the Th1 phenotype by strongly enhancing IFN-gamma production. IL-12B2 gene acts as tumor suppressor in human acute and chronic B-cell leukemias/lymphomas, IL-12R beta 2 directly restrains multiple myeloma cell growth, and targeting of IL-12 to tumor cells holds promise as new therapeutic strategy.

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