

# Human IL-12 R beta 2 Protein, His Tag (MALS verified)

Catalog # ILB-H52H6



BIOSYSTEMS  
**Acro**

## Synonym

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

## Source

Human IL-12 R beta 2, His Tag (ILB-H52H6) is expressed from human 293 cells (HEK293). It contains AA Lys 24 - Asn 622 (Accession # [Q99665-1](#)).

## Molecular Characterization

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

This protein carries a polyhistidine tag at the C-terminus.

The protein has a calculated MW of 70.0 kDa. The protein migrates as 85-95 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE) due to glycosylation.

## Endotoxin

Less than 1.0 EU per µg by the LAL method.

## Purity

>95% 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

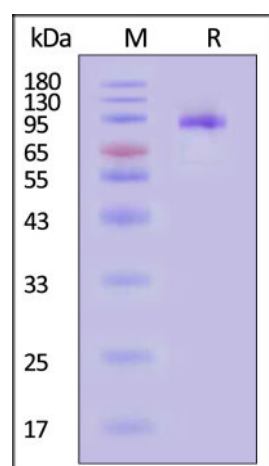
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*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.

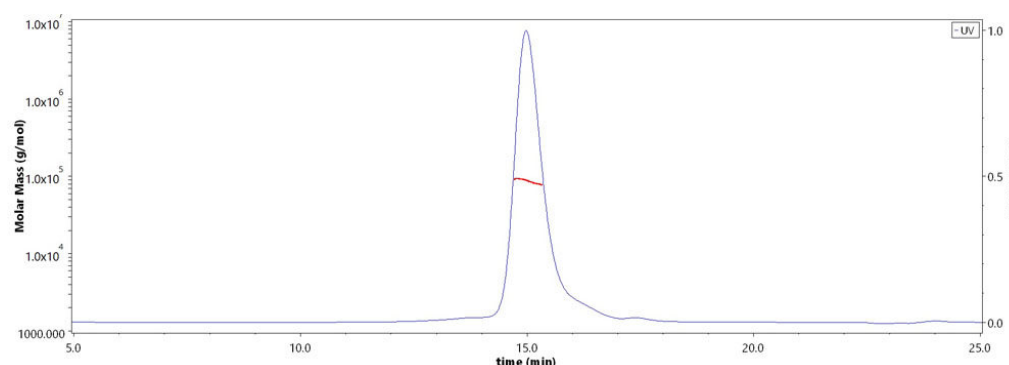
## SDS-PAGE



Human IL-12 R beta 2, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95% (With [Star Ribbon Pre-stained Protein Marker](#)).

## Bioactivity-ELISA

## SEC-MALS



The purity of Human IL-12 R beta 2, His Tag (Cat. No. ILB-H52H6) is more than 85% and the molecular weight of this protein is around 75-95 kDa verified by SEC-MALS.

[Report](#)

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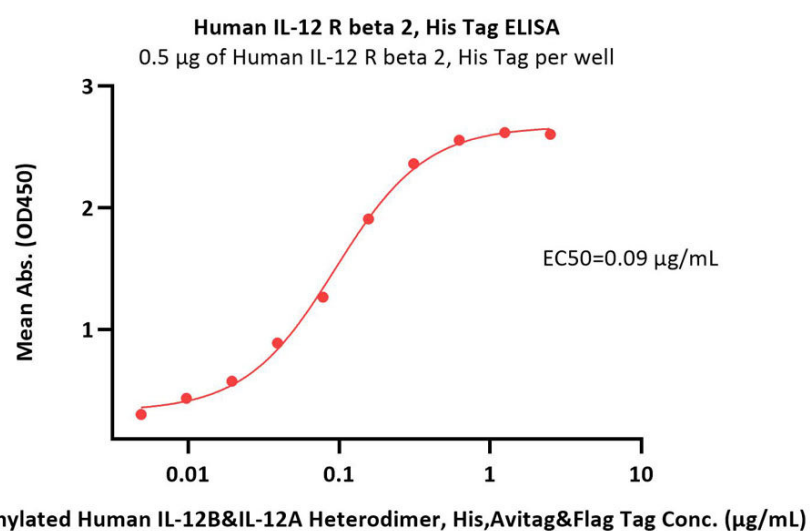


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Immobilized Human IL-12 R beta 2, His Tag (Cat. No. ILB-H52H6) at 5 µg/mL (100 µL/well) can bind Biotinylated Human IL-12B&IL-12A Heterodimer, His,Avitag&Flag Tag (Cat. No. IL2-H8210) with a linear range of 0.01-0.3 µg/mL (QC tested).

## 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.

## Clinical and Translational Updates

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4/16/2024