

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

Catalog # ILB-H52H6



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 / rFC 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

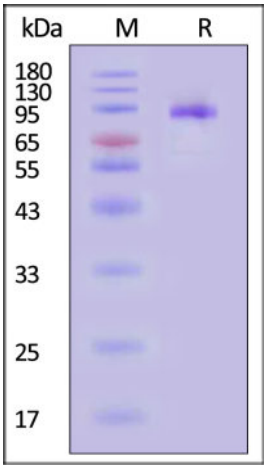
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

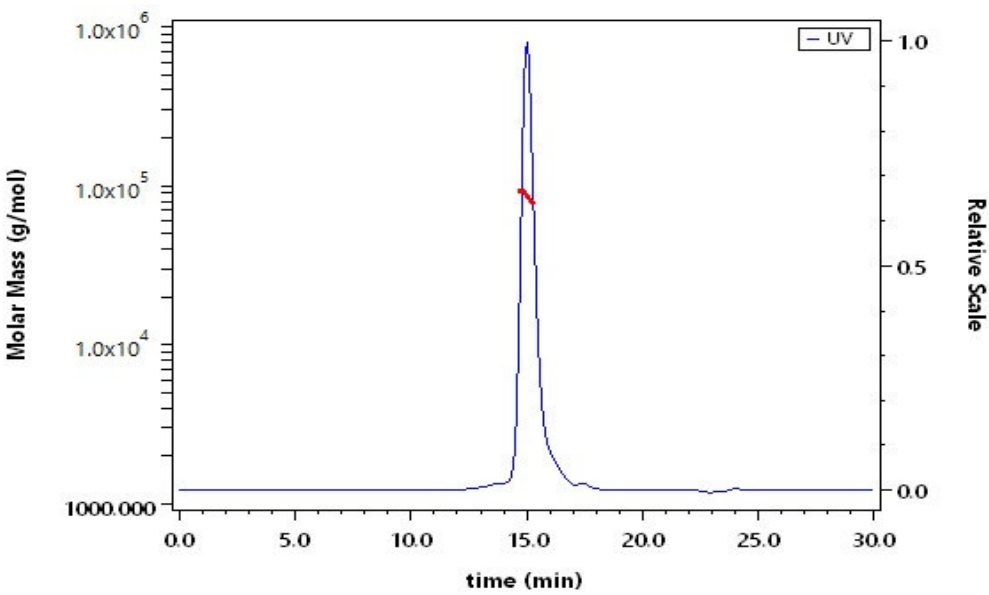
- 20°C to -70°C for 12 months in lyophilized state;
- 70°C for 3 months under sterile conditions after reconstitution.

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](#)).

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.

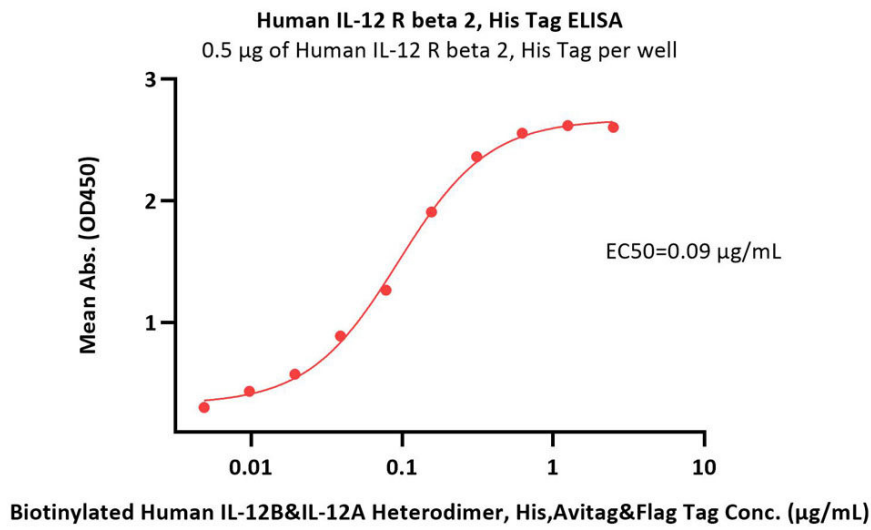
[Report](#)

Bioactivity-ELISA



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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.

