



## Synonym

IL-23 R, IL-23 Receptor

## Source

Human IL-23 R, His Tag (ILR-H52H4) is expressed from human 293 cells (HEK293). It contains AA Gly 24 - Gly 355 (Accession # [Q5VWK5-1](#)).

Predicted N-terminus: Gly 24

## Molecular Characterization

IL-23R(Gly 24 - Gly 355)  
Q5VWK5-1 Poly-his

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

The protein has a calculated MW of 39.9 kDa. The protein migrates as 55-70 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

## Endotoxin

Less than 1.0 EU per µg by the LAL method.

## 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

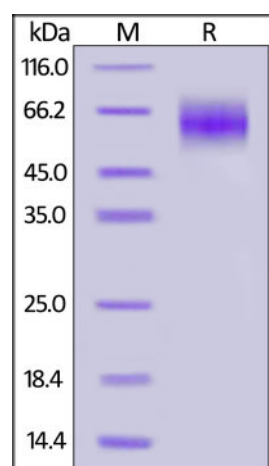
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*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.

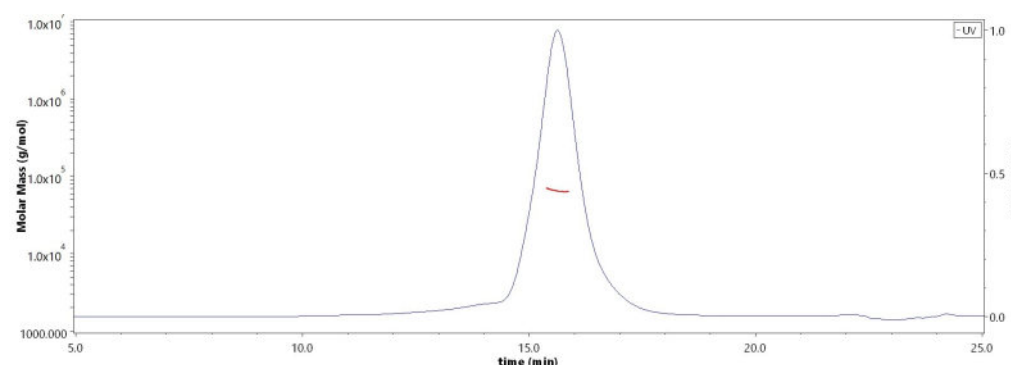
## SDS-PAGE



Human IL-23 R, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90%.

## Bioactivity-SPR

## SEC-MALS



The purity of Human IL-23 R, His Tag (Cat. No. ILR-H52H4) is more than 85% and the molecular weight of this protein is around 55-70 kDa verified by SEC-MALS.

[Report](#)

Discounts, Gifts,  
and more!

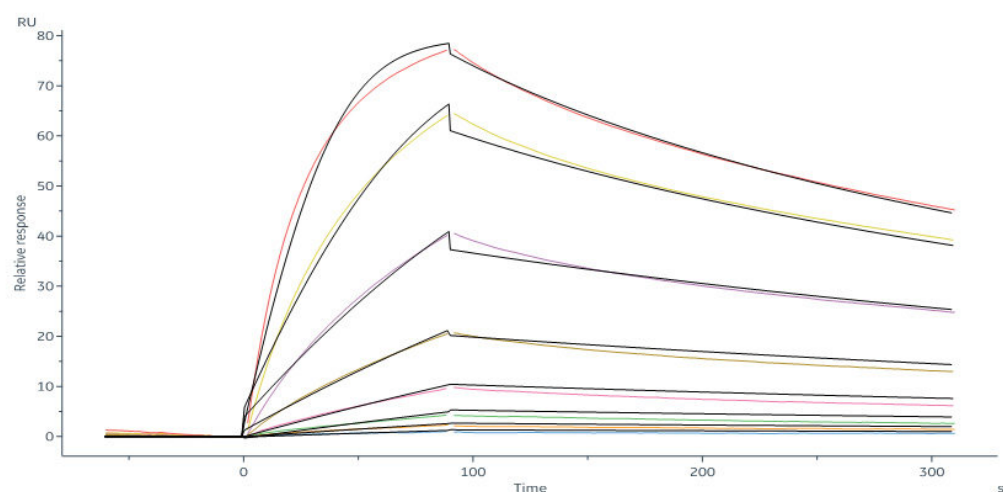


## Human IL-23 R Protein, His Tag (MALS & SPR verified)

Catalog # ILR-H52H4

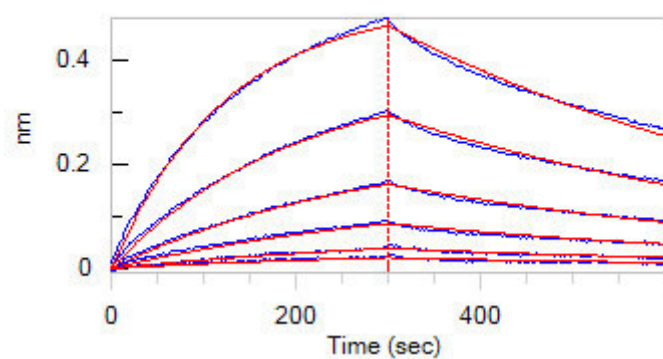


BIOSYSTEMS  
**Acro**  
Surprise Inside!



Biotinylated Human IL-23A&IL-12B Heterodimer Protein, His,Avitag&Tag Free (Cat. No. ILB-H82W6) captured on Biotin CAP - Series S sensor Chip can bind Human IL-23 R, His Tag (SPR verified) (Cat. No. ILR-H52H4) with an affinity constant of 3.39 nM as determined in a SPR assay (Biacore 8K) (QC tested).

### Bioactivity-BLI



Loaded Biotinylated Human IL-23A&IL-12B Heterodimer Protein, His,Avitag&Tag Free (Cat. No. ILB-H82W6) on SA Biosensor, can bind Human IL-23 R, His Tag (SPR verified) (Cat. No. ILR-H52H4) with an affinity constant of 33.2 nM as determined in BLI assay (ForteBio Octet Red96e) (Routinely tested).

### Background

Interleukin 23 receptor (IL-23R) is a type I cytokine receptor, and IL-23R pairs with the receptor molecule IL12RB1/IL12Rbeta1, and both are required for IL23A signaling. Also, IL-23R associates constitutively with Janus kinase 2 (JAK2), and binds to transcription activator STAT3 in a ligand-dependent manner. Furthermore, IL-23R mediates T-cells, NK cells and possibly certain macrophage/myeloid cells stimulation probably through activation of the Jak-Stat signaling cascade. As for IL-23, it may be responsible for autoimmune inflammatory diseases and be important for tumorigenesis.

### Clinical and Translational Updates

Discounts, Gifts,  
and more!



➤ [www.acrobiosystems.com](http://www.acrobiosystems.com)

3/11/2024