



Synonym

IL-23 R, IL-23 Receptor

Source

Human IL-23 R, Fc Tag (ILR-H5254) 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	Fc(Pro 100 - Lys 330) P01857
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This protein carries a human IgG1 Fc tag at the C-terminus.

The protein has a calculated MW of 64.5 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.

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

Tris with Glycine, Arginine and NaCl, pH7.5 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

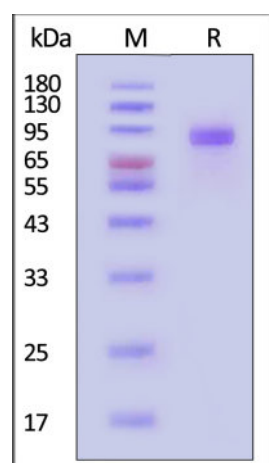
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

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.

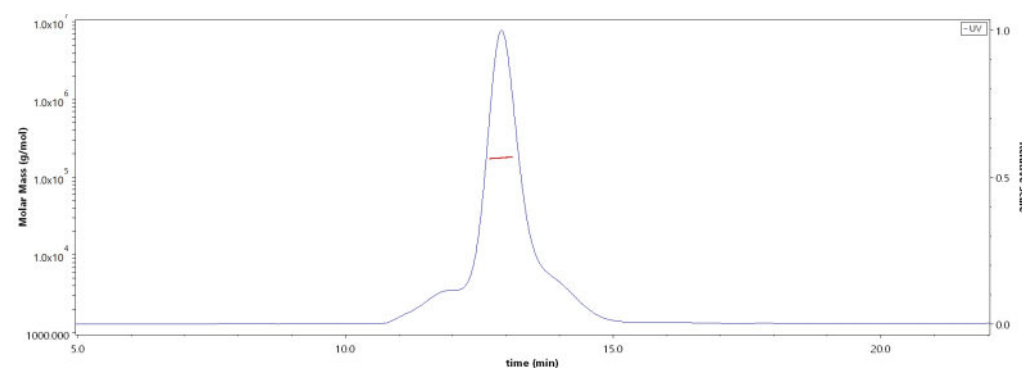
SDS-PAGE



Human IL-23 R, Fc 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-23 R, Fc Tag (Cat. No. ILR-H5254) is more than 85% and the molecular weight of this protein is around 155-185 kDa verified by SEC-MALS.

[Report](#)

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and more!



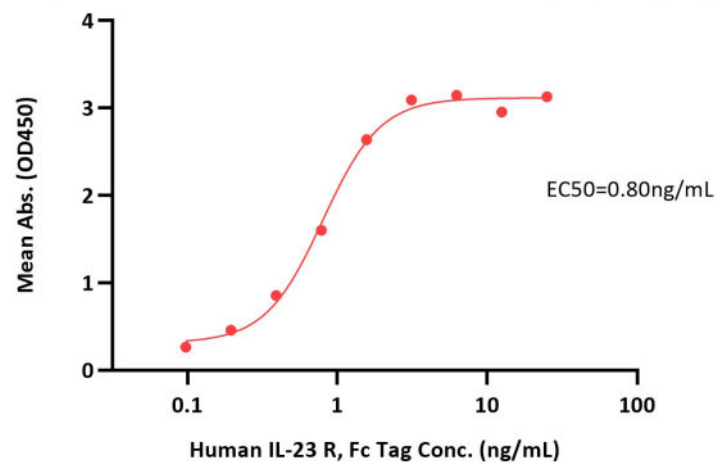
Human IL-23 R Protein, Fc Tag (MALS verified)

Catalog # ILR-H5254



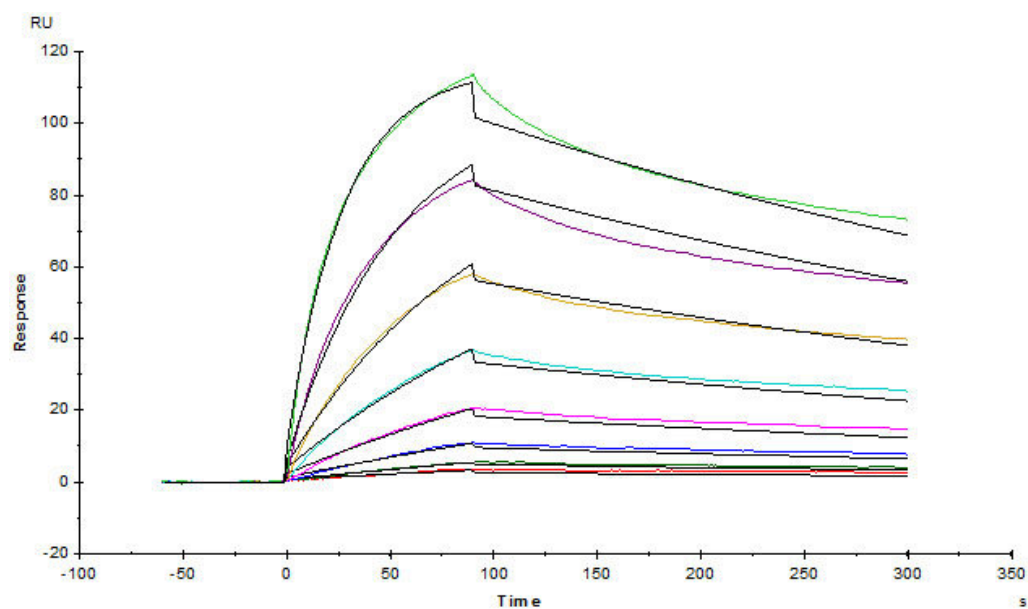
BIOSYSTEMS
Acro

Human IL-23 R, Fc Tag ELISA
0.2 μ g of Biotinylated Human IL-23A&IL-12B Heterodimer Protein, His,Avitag&Tag Free per well



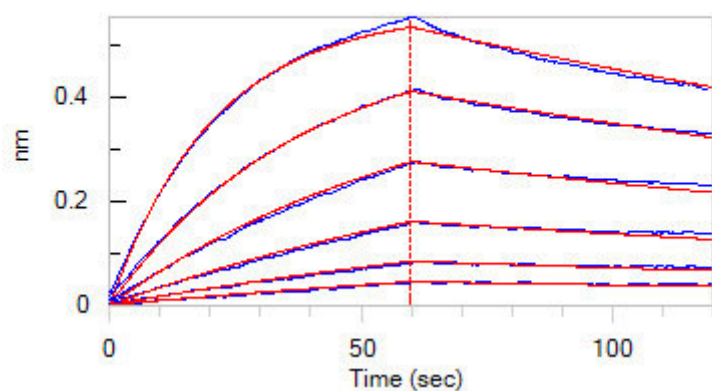
Immobilized Biotinylated Human IL-23A&IL-12B Heterodimer Protein, His,Avitag&Tag Free (Cat. No. ILB-H82W6) at 2 μ g/mL (100 μ L/well) on streptavidin (Cat. No. STN-N5116) precoated (0.2 μ g/well) plate. can bind Human IL-23 R, Fc Tag (Cat. No. ILR-H5254) with a linear range of 0.2-2 ng/mL (QC tested).

Bioactivity-SPR



Captured Human IL-23 R, Fc Tag (Cat. No. ILR-H5254) on CM5 chip via anti-human IgG Fc antibodies surface can bind Human IL23A & IL12B, His Tag (Cat. No. ILB-H52W5) with an affinity constant of 5.36 nM as determined in a SPR assay (Biacore T200) (Routinely tested).

Bioactivity-BLI



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Human IL-23 R Protein, Fc Tag (MALS verified)

Catalog # ILR-H5254



BIOSYSTEMS
Acro

Loaded Human IL-23 R, Fc Tag (Cat. No. ILR-H5254) on Protein A Biosensor, can bind Human IL-23A&IL-12B Heterodimer Protein, His Tag&Tag Free (Cat. No. ILB-H52W5) with an affinity constant of 9.25 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

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