

Biotinylated Mouse IL-23 R Protein, Fc,Avitag™ (MALS & SPR verified)

Catalog # ILR-M82F3



BIOSYSTEMS
Acro

Synonym

IL-23 R

Source

Biotinylated Mouse IL-23 R Protein, Fc,Avitag (ILR-M82F3) is expressed from human 293 cells (HEK293). It contains AA Gly 24 - Gly 374 (Accession # [Q8K4B4](#)).

Predicted N-terminus: Gly 24

Molecular Characterization

IL-23 R(Gly 24 - Gly 374) Q8K4B4	Fc(Pro 100 - Lys 330) P01857-1	Avi
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This protein carries a human IgG1 Fc tag at the C-terminus, followed by an Avi tag (Avitag™).

The protein has a calculated MW of 68.6 kDa. The protein migrates as 95-130 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.

>90% as determined by SEC-MALS.

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.

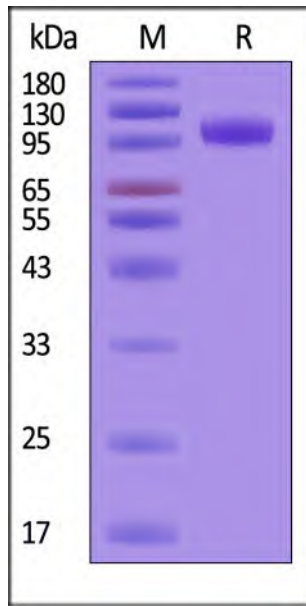
This product is stable after storage at:

- -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

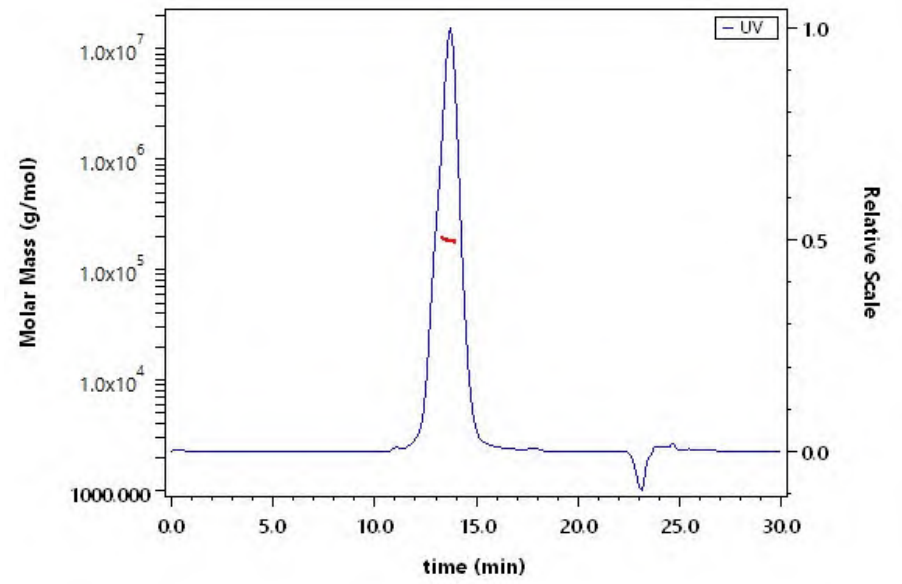
- [QMS\(ISO, GMP\)](#)
- [Quality Advantages](#)
- [Quality Control Process](#)

SDS-PAGE



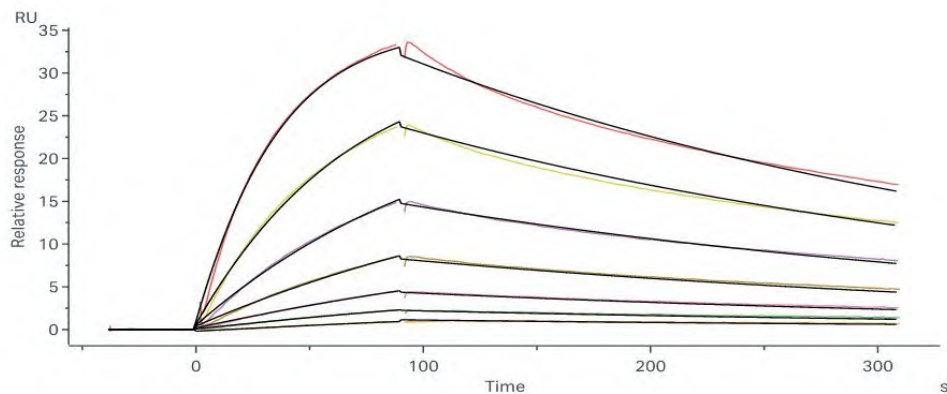
Biotinylated Mouse IL-23 R Protein, Fc,Avitag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90% (With [Star Ribbon Pre-stained Protein Marker](#)).

SEC-MALS



The purity of Biotinylated Mouse IL-23 R Protein, Fc,Avitag (Cat. No. ILR-M82F3) is more than 90% and the molecular weight of this protein is around 160-200 kDa verified by SEC-MALS.

Bioactivity-SPR



Biotinylated Mouse IL-23 R Protein, Fc,Avitag (Cat. No. ILR-M82F3) immobilized on CM5 Chip can bind Mouse IL-23A&IL-12B Heterodimer Protein, His Tag&Tag Free (Cat. No. ILB-M52W7) with an affinity constant of 14.6 nM as determined in a SPR assay (Biacore 8K) (QC 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.

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