

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

Catalog # ILR-M82E7



BIOSYSTEMS
Acro

Surprise Inside!

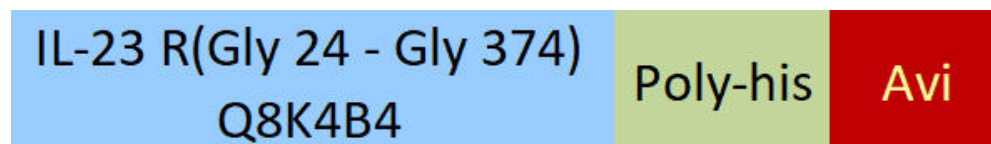
Synonym

IL-23 R

Source

Biotinylated Mouse IL-23 R Protein, His,Avitag (ILR-M82E7) is expressed from human 293 cells (HEK293). It contains AA Gly 24 - Gly 374 (Accession # [Q8K4B4](#)).

Molecular Characterization



This protein carries a polyhistidine tag at the C-terminus, followed by an Avi tag (Avitag™).

The protein has a calculated MW of 44.1 kDa. The protein migrates as 60-80 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

>95% 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.

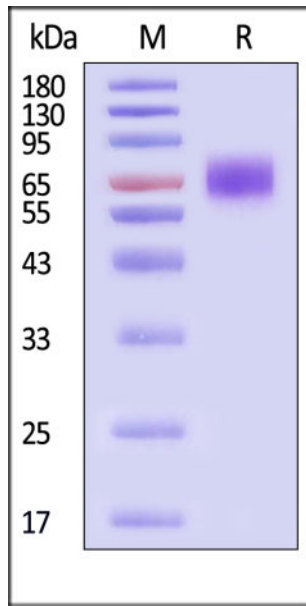
This product is stable after storage at:

- -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

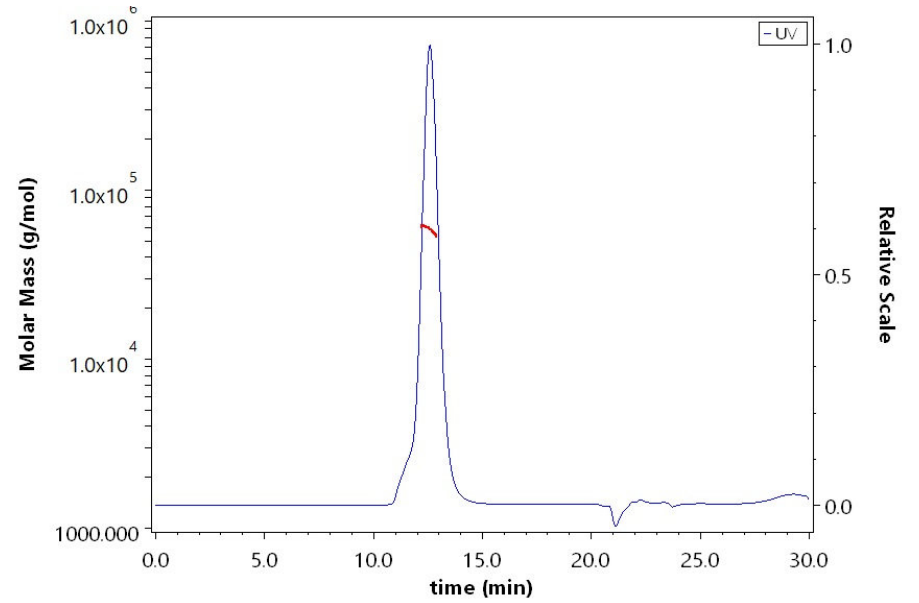
- [QMS\(ISO, GMP\)](#)
- [Quality Advantages](#)
- [Quality Control Process](#)

SDS-PAGE



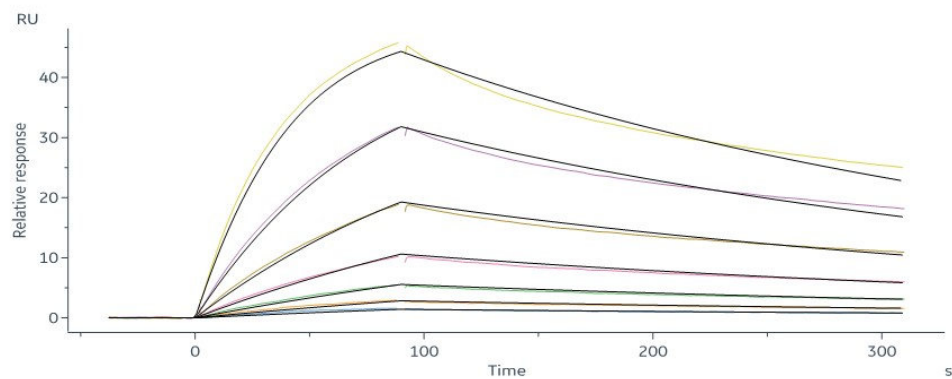
Biotinylated Mouse IL-23 R Protein, His,Avitag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95% (With [Star Ribbon Pre-stained Protein Marker](#)).

SEC-MALS



The purity of Biotinylated Mouse IL-23 R Protein, His,Avitag (Cat. No. ILR-M82E7) is more than 90% and the molecular weight of this protein is around 50-80 kDa verified by SEC-MALS.

Bioactivity-SPR



Biotinylated Mouse IL-23 R Protein, His,Avitag (Cat. No. ILR-M82E7) immobilized on SA Chip can bind Mouse IL-23A&IL-12B Heterodimer Protein, His Tag&Tag Free (Cat. No. ILB-M52W7) with an affinity constant of 6.11 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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