

Mouse IL-23 R Protein, His Tag (MALS verified)

Catalog # ILR-M52H7



Synonyms

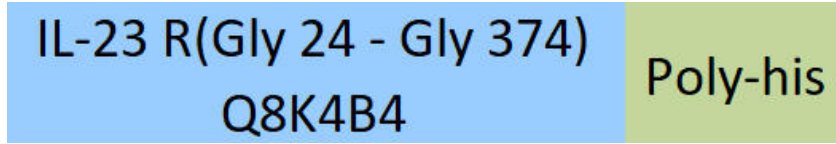
IL-23 R

Source

Mouse IL-23 R Protein, His Tag (ILR-M52H7) is expressed from human 293 cells (HEK293). It contains AA Gly 24 - Gly 374 (Accession # [Q8K4B4](#)).

Predicted N-terminus: Gly 24

Molecular Characterization



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

The protein has a calculated MW of 42.3 kDa. The protein migrates as 55-85 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE) due to glycosylation.

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, 0.5 M Arginine 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.

Shipping and Storage

This product is shipped at ambient temperature.

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

Please avoid repeated freeze-thaw cycles.

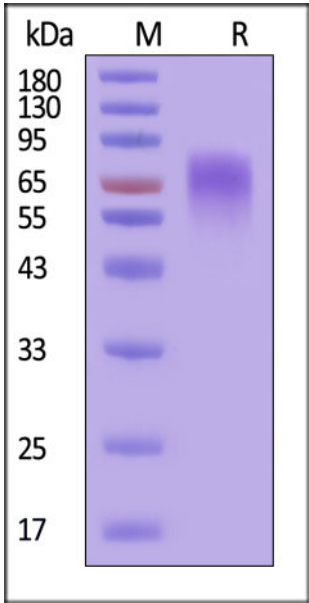
This product is stable after storage at:

- -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

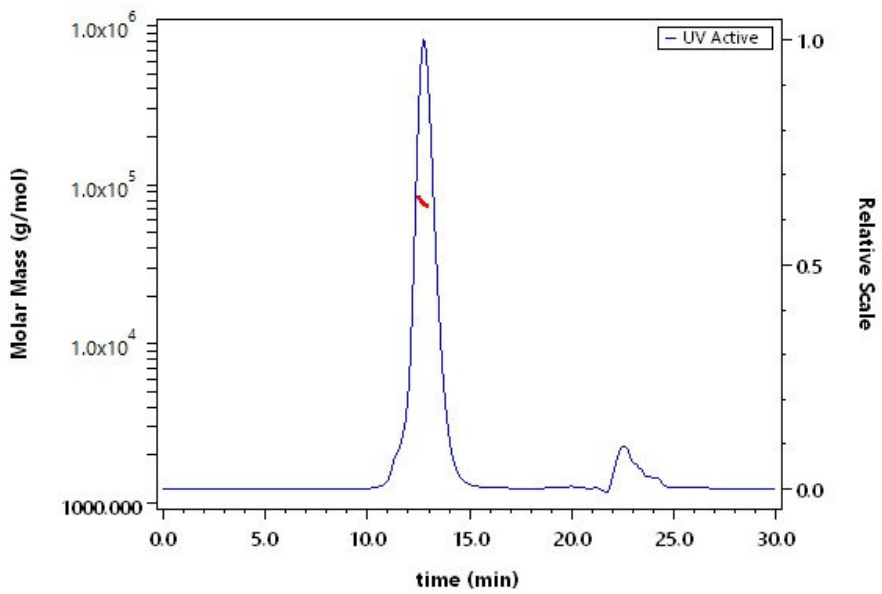
- [QMS\(ISO, GMP\)](#).
- [Quality Advantages](#)
- [Quality Control Process](#)

SDS-PAGE



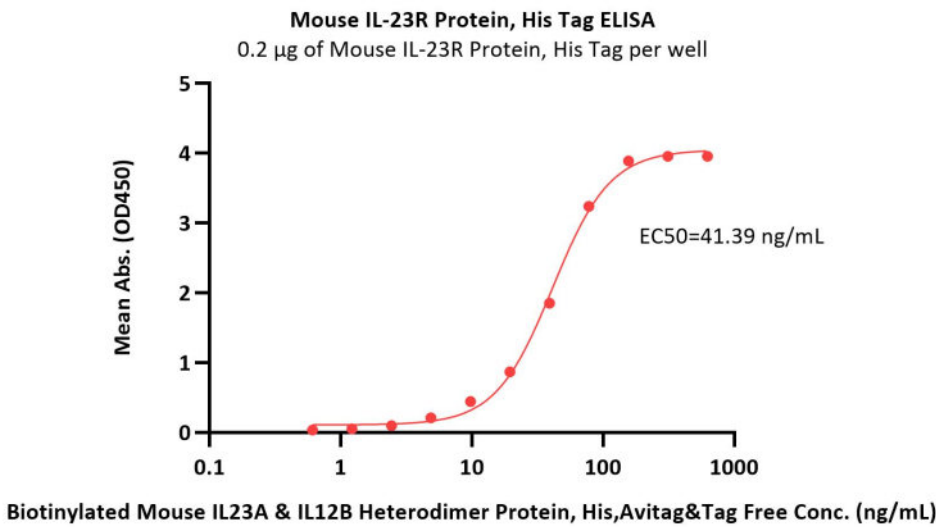
Mouse IL-23 R Protein, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90% (With [Star Ribbon Pre-stained Protein Marker](#)).

SEC-MALS



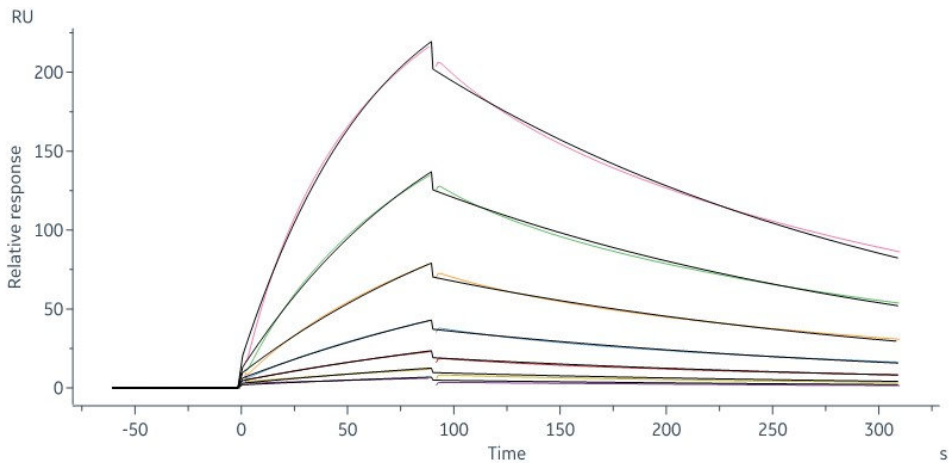
The purity of Mouse IL-23 R Protein, His Tag (Cat. No. ILR-M52H7) is more than 90% and the molecular weight of this protein is around 55-80 kDa verified by SEC-MALS.

Bioactivity-ELISA



Immobilized Mouse IL-23 R Protein, His Tag (Cat. No. ILR-M52H7) at 2 µg/mL (100 µL/well) can bind Biotinylated Mouse IL23A & IL12B Heterodimer Protein, His,Avitag&Tag Free (Cat. No. ILB-M82W3) with a linear range of 0.6-78 ng/mL (QC tested).

Bioactivity-SPR



Biotinylated Human IL-23 alpha&IL-12 beta Heterodimer Protein, His,Avitag&Tag Free (Cat. No. ILB-H82W6) captured on Biotin CAP-Series S Sensor Chip can bind Mouse IL-23 R Protein, His Tag (Cat. No. ILR-M52H7) with an affinity constant of 160 nM as determined in a SPR assay (Biacore 8K) (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.



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