

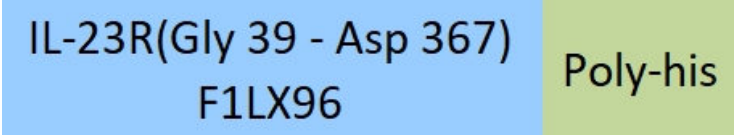
Synonym

IL-23 R

Source

Rat IL-23 R Protein, His Tag(ILR-R52H3) is expressed from human 293 cells (HEK293). It contains AA Gly 39 - Asp 367 (Accession # [F1LX96](#)).  
Predicted N-terminus: Gly 39

Molecular Characterization



This protein carries a polyhistidine tag at the C-terminus.  
The protein has a calculated MW of 39.6 kDa. The protein migrates as 50-80 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 / rFC method.

Purity

>95% 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

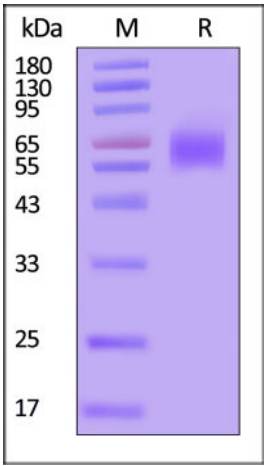
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*Please avoid repeated freeze-thaw cycles.*

This product is stable after storage at:

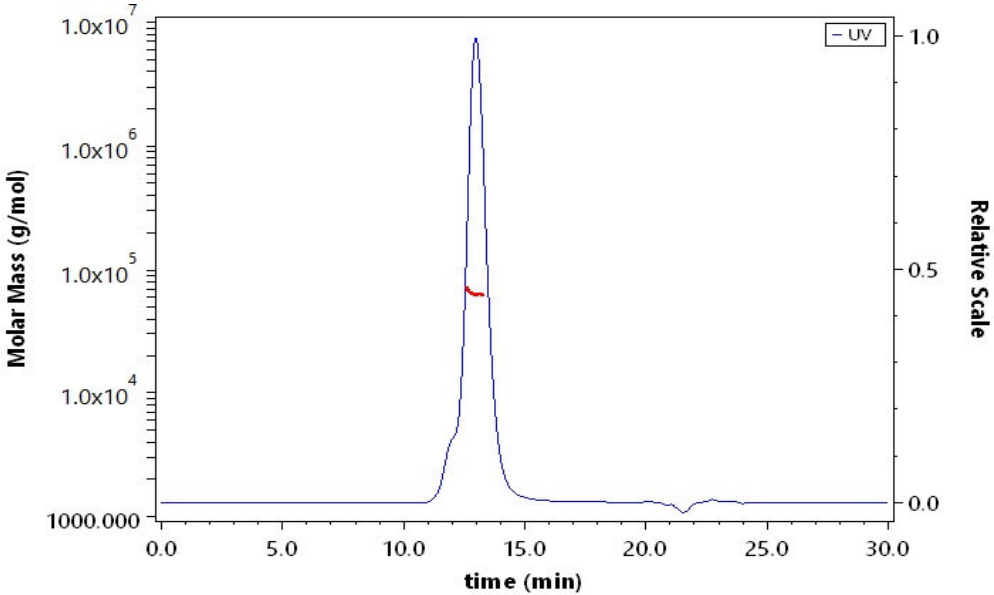
- 20°C to -70°C for 12 months in lyophilized state;
- 70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE



Rat 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 95% (With [Star Ribbon Pre-stained Protein Marker](#)).

SEC-MALS

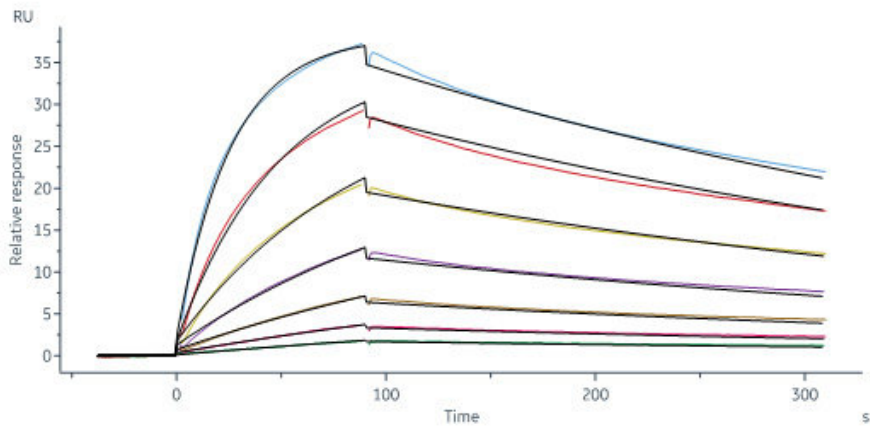


The purity of Rat IL-23 R Protein, His Tag (Cat. No. ILR-R52H3) is more than 85% and the molecular weight of this protein is around 55-75 kDa verified by SEC-MALS.

[Report](#)

Bioactivity-SPR





Human IL-23A&Rat IL-12B Heterodimer Protein, His Tag&Tag Free (Cat. No. ILB-HR52W3) immobilized on CM5 Chip can bind Rat IL-23 R Protein, His Tag (Cat. No. ILR-R52H3) with an affinity constant of 15.6 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.

