

Biotinylated Rhesus macaque IL-11 R alpha Protein, His,Avitag™ (MALS verified)

Catalog # ILR-R82E3



BIOSYSTEMS
Acro

Synonyms

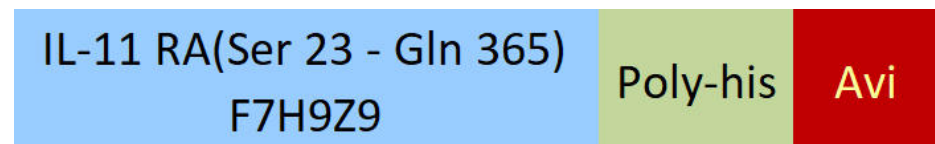
IL-11 R alpha, IL-11 RA, IL11RA, Interleukin-11 receptor subunit alpha, IL-11 receptor subunit alpha, IL-11R subunit alpha, IL-11R-alpha

Source

Biotinylated Rhesus macaque IL-11 R alpha Protein, His,Avitag (ILR-R82E3) is expressed from human 293 cells (HEK293). It contains AA Ser 23 - Gln 365 (Accession # [F7H9Z9](#)).

Predicted N-terminus: Ser 23

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 41.1 kDa. The protein migrates as 41-46 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE) due to glycosylation.

Conjugate

Biotin-labeled

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.

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.

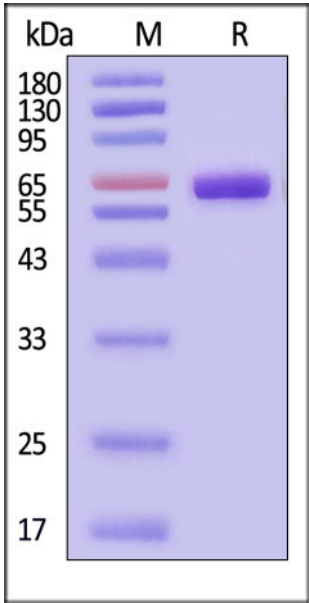
This product is stable after storage at:

- -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

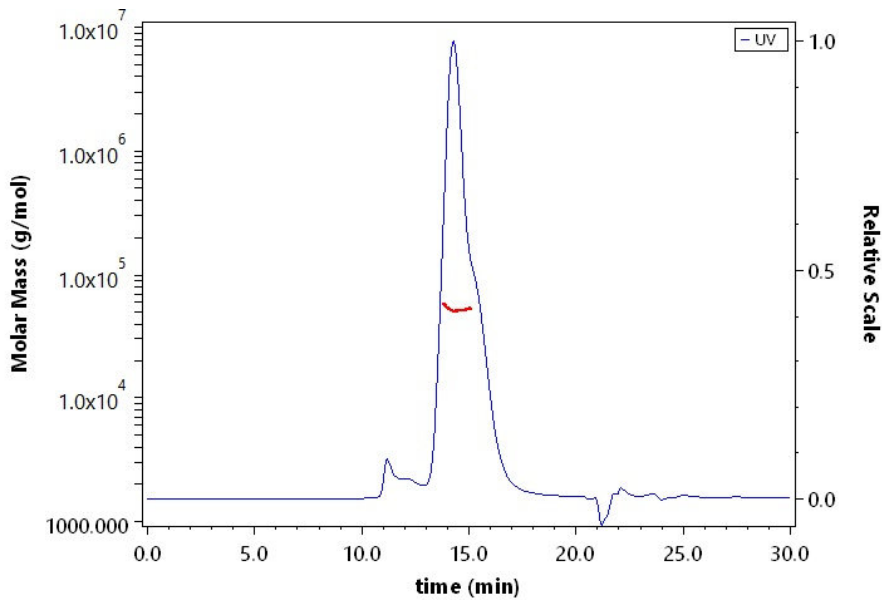
- [QMS\(ISO, GMP\)](#)
- [Quality Advantages](#)
- [Quality Control Process](#)

SDS-PAGE



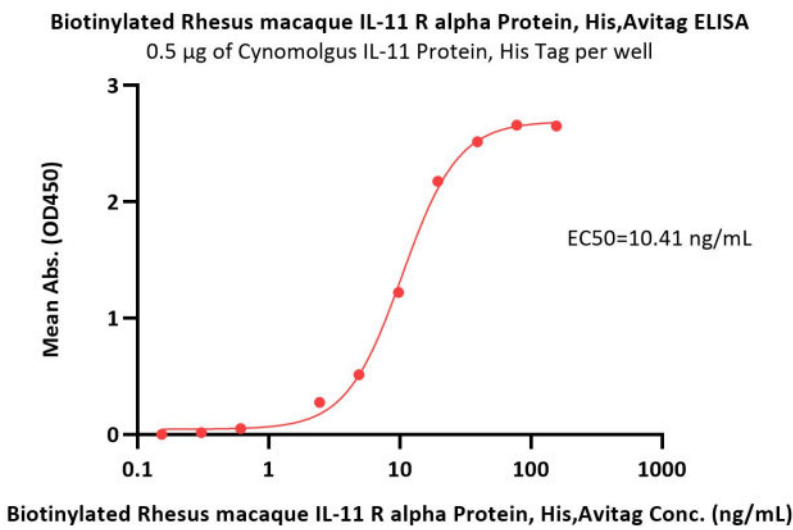
Biotinylated Rhesus macaque IL-11 R alpha Protein, His,Avitag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95% (With [Star Ribbon Pre-stained Protein Marker](#)).

SEC-MALS



The purity of Biotinylated Rhesus macaque IL-11 R alpha Protein, His,Avitag (Cat. No. ILR-R82E3) is more than 90% and the molecular weight of this protein is around 40-60 kDa verified by SEC-MALS.

Bioactivity-ELISA



Immobilized Cynomolgus IL-11 Protein, His Tag (Cat. No. IL1-C5243) at 5 µg/mL (100 µL/well) can bind Biotinylated Rhesus macaque IL-11 R alpha Protein, His,Avitag (Cat. No. ILR-R82E3) with a linear range of 0.2-20 ng/mL (QC tested).

Background

Interleukin-11 receptor subunit alpha (IL-11RA) is a type I transmembrane hematopoietic cytokine receptor serving as the ligand-specific binding subunit for IL-11. It harbors an extracellular cytokine-binding homology region, binds IL-11 with low affinity on its own, and recruits the shared, ubiquitously expressed signal-transducing coreceptor gp130 to assemble a functional high-affinity hexameric signaling complex upon ligand engagement. Widely expressed on stromal, epithelial and hematopoietic cells, IL-11RA mediates activation of JAK/STAT (predominantly STAT3), MAPK and PI3K pathways, governing critical biological processes including hematopoiesis, tissue damage repair and immune homeostasis, and is closely linked to fibrotic disorders and tumor progression.



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