

Synonym

IL21R,CD360,NILR

Source

Biotinylated Human IL-21 R Protein, Fc,Avitag(ILR-H82F7) is expressed from human 293 cells (HEK293). It contains AA Cys 20 - Pro 236 (Accession # [Q9HBE5-1](#)).

Predicted N-terminus: Cys 20

Molecular Characterization

IL-21 R(Cys 20 - Pro 236) Q9HBE5-1	Fc(Pro 100 - Lys 330) P01857	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 53.1 kDa. The protein migrates as 65 -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.

Endotoxin

Less than 1.0 EU per µg by the LAL method.

Purity

>90% 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

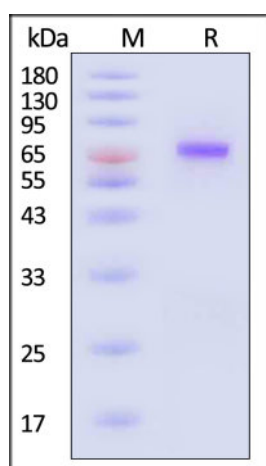
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

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.

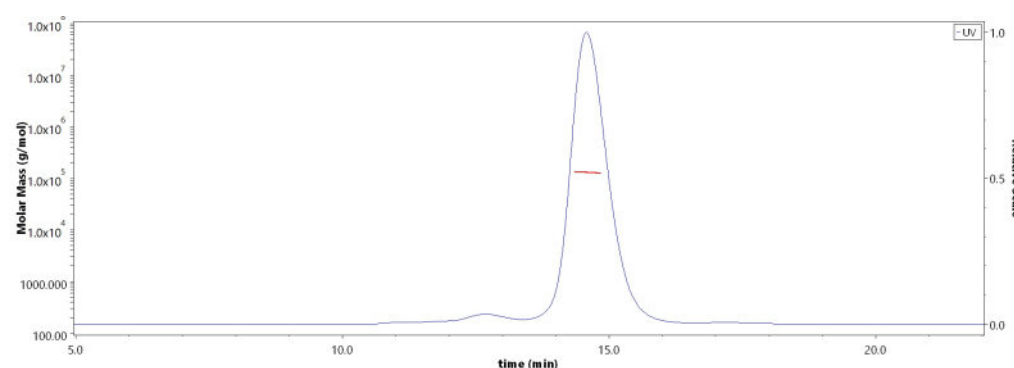
SDS-PAGE



Biotinylated Human IL-21 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](#)).

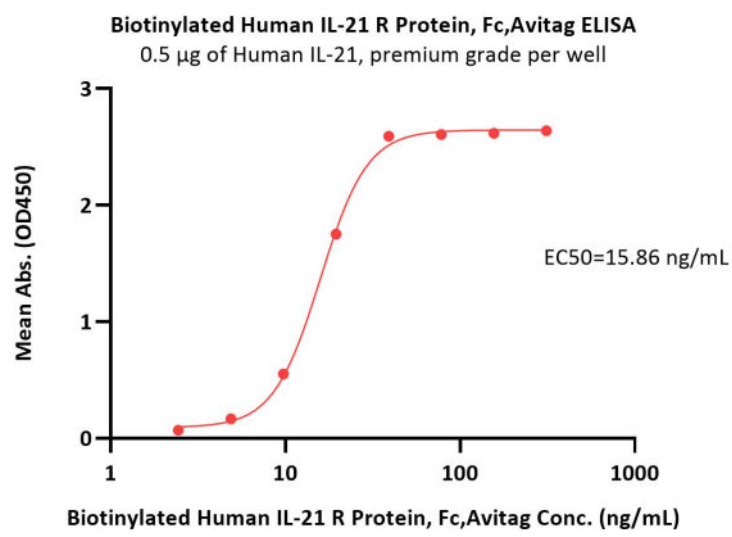
Bioactivity-ELISA

SEC-MALS



The purity of Biotinylated Human IL-21 R Protein, Fc,Avitag (Cat. No. ILR-H82F7) is more than 85% and the molecular weight of this protein is around 120-140 kDa verified by SEC-MALS.

[Report](#)



Immobilized Human IL-21, premium grade (Cat. No. IL1-H5213) at 5 µg/mL (100 µL/well) can bind Biotinylated Human IL-21 R Protein, Fc,Avitag (Cat. No. ILR-H82F7) with a linear range of 2-39 ng/mL (QC tested).

Background

Interleukin-21 receptor (IL21R) is also known as CD antigen CD360, Novel interleukin receptor (NILR), is a receptor for interleukin-21 and belongs to the type I cytokine receptor family or type 4 subfamily. IL21R contains two fibronectin type-III domains. IL21R is selectively expressed in lymphoid tissues and most highly expressed in thymus and spleen. IL21R transduces the growth promoting signal of IL21, and is important for the proliferation and differentiation of T cells, B cells, and natural killer (NK) cells.

Clinical and Translational Updates

Please contact us via TechSupport@acrobiosystems.com if you have any question on this product.