

Synonym

IL-15 R alpha,CD215,IL15RA,IL-15RA,IL-15R-alpha

Source

Biotinylated Human IL-15 R alpha, Fc,Avitag(ILA-H82F4) is expressed from human 293 cells (HEK293). It contains AA Ile 31 - Thr 205 (Accession # [Q13261-1](#)).

Predicted N-terminus: Ile 31

Molecular Characterization

IL-15 R alpha(Ile 31 - Thr 205) Q13261-1	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 46.6 kDa. The protein migrates as 60-75 kDa 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

>95% as determined by SDS-PAGE.

>90% as determined by SEC-MALS.

Formulation

Lyophilized from 0.22 µm filtered solution in Tris with Glycine, Arginine and NaCl, pH7.5 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

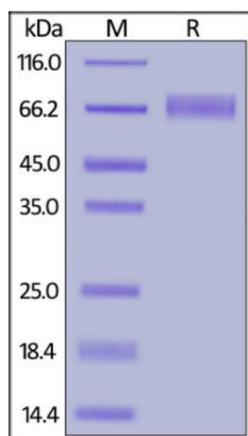
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

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.

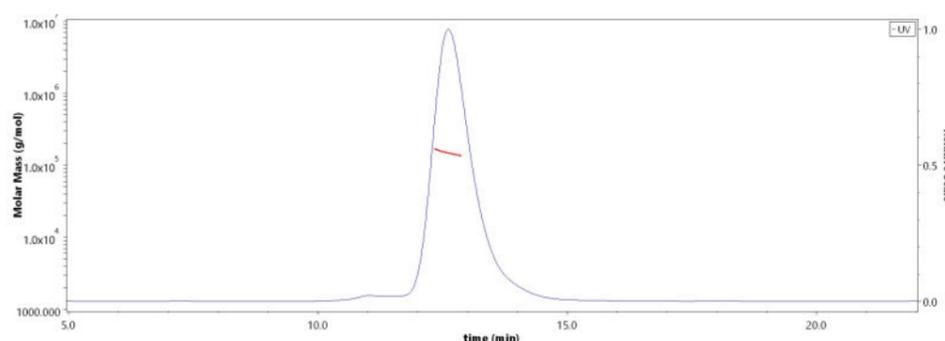
SDS-PAGE



Biotinylated Human IL-15 R alpha, Fc,Avitag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95%.

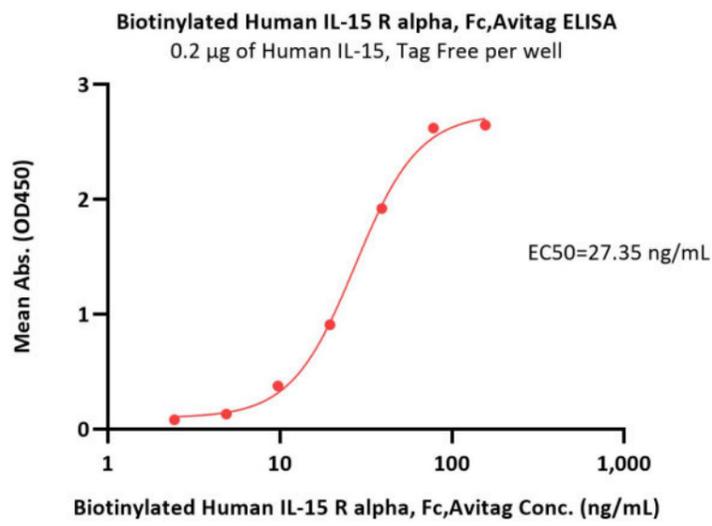
Bioactivity-ELISA

SEC-MALS

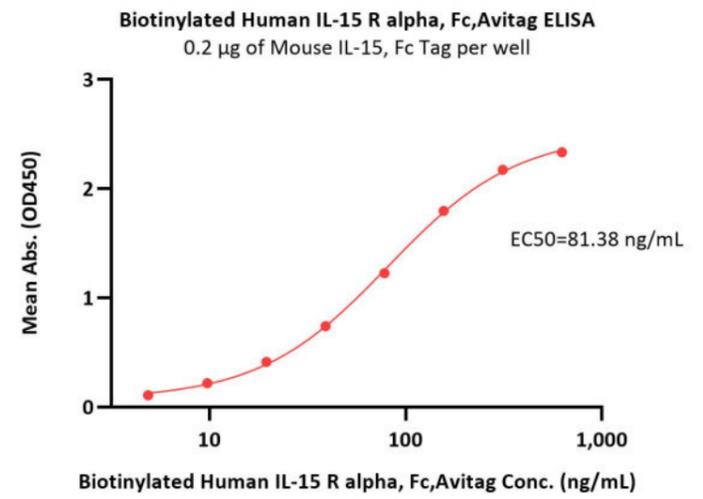


The purity of Biotinylated Human IL-15 R alpha, Fc,Avitag (Cat. No. ILA-H82F4) is more than 90% and the molecular weight of this protein is around 140-160 kDa verified by SEC-MALS.

[Report](#)



Immobilized Human IL-15, premium grade (Cat. No. IL5-H4117) at 2 µg/mL (100 µL/well) can bind Biotinylated Human IL-15 R alpha, Fc,Avitag (Cat. No. ILA-H82F4) with a linear range of 2-39 ng/mL (QC tested).



Immobilized Mouse IL-15, Fc Tag (Cat. No. IL5-M5255) at 2 µg/mL (100 µL/well) can bind Biotinylated Human IL-15 R alpha, Fc,Avitag (Cat. No. ILA-H82F4) with a linear range of 10-156 ng/mL (Routinely tested).

Background

IL15R is a heterotrimer of IL15RA, IL2RB and IL2RG. IL-15RA, also known as CD215, IL-15 R alpha, is a widely expressed 60 kDa transmembrane glycoprotein. High-affinity receptor for interleukin-15. Can signal both in cis and trans where IL15R from one subset of cells presents IL15 to neighboring IL2RG-expressing cells. Expression of different isoforms may alter or interfere with signal transduction. An interleukin (IL)-15 superagonist/IL-15 receptor α fusion complex (IL-15SA/IL-15RA; ALT-803) activates the IL-15 receptor on CD8 T cells and NK cells, and has shown significant anti-tumor. Signal transduction involves SYK. Higher levels of soluble sIL-15RA form in comparison with membrane-bound forms is present in all brain structures.

Clinical and Translational Updates

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