

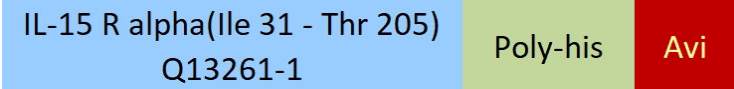
Synonym

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

Source

Biotinylated Human IL-15 R alpha Protein, His,Avitag(ILA-H82E5) is expressed from human 293 cells (HEK293). It contains AA Ile 31 - Thr 205 (Accession # [Q13261-1](#)).
Predicted N-terminus: Ile 31

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 22 kDa. The protein migrates as 43-65 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.

Purity

>90% as determined by SDS-PAGE.
>95% 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

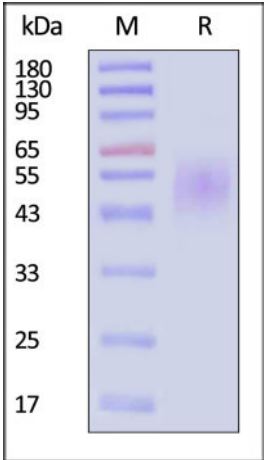
Please see Certificate of Analysis for specific instructions.
For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.

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:

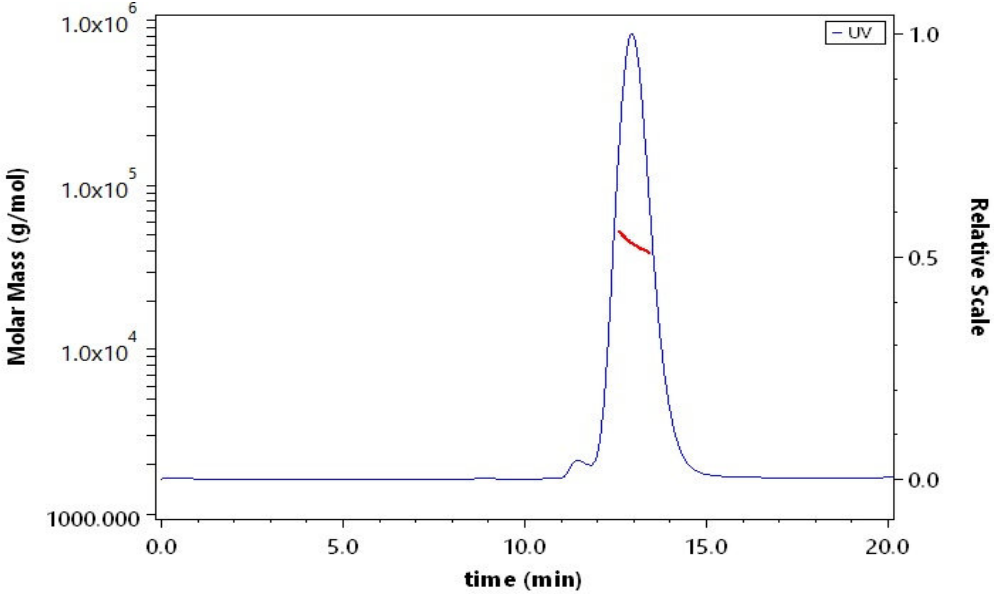
- 20°C to -70°C for 12 months in lyophilized state;
- 70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE



Biotinylated Human IL-15 R alpha 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 90% (With [Star Ribbon Pre-stained Protein Marker](#)).

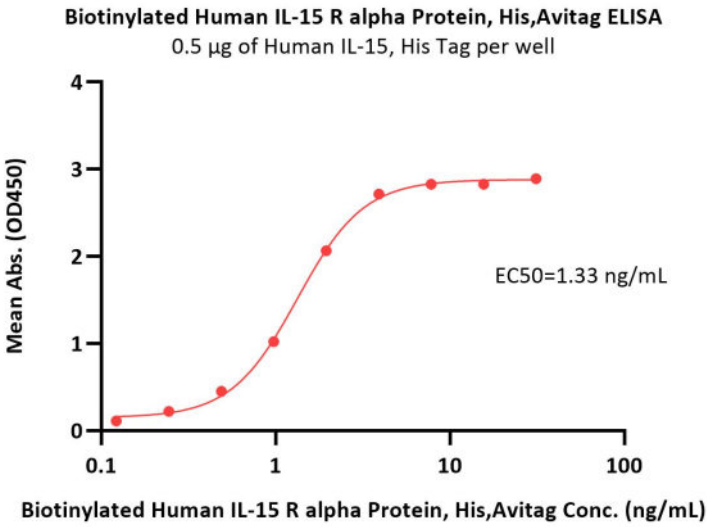
SEC-MALS



The purity of Biotinylated Human IL-15 R alpha Protein, His,Avitag (Cat. No. ILA-H82E5) is more than 95% and the molecular weight of this protein is around 40-50 kDa verified by SEC-MALS.
[Report](#)

Bioactivity-ELISA





Immobilized Human IL-15, His Tag (Cat. No. IL5-H52H8) at 5 µg/mL (100 µL/well) can bind Biotinylated Human IL-15 R alpha Protein, His,Avitag (Cat. No. ILA-H82E5) with a linear range of 0.1-2 ng/mL (QC 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.

