

Synonym

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

Source

FITC-Labeled Human IL-15 R alpha, Fc Tag(ILA-HF255) 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)<br>Q13261-1 | Fc(Pro 100 - Lys 330)<br>P01857 |
|---------------------------------------------|---------------------------------|

This protein carries a human IgG1 Fc tag at the C-terminus.

The protein has a calculated MW of 44.8 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.

Conjugate

FITC

Excitation source: 488 nm spectral line, argon-ion laser

Excitation Wavelength: 488 nm

Emission Wavelength: 535 nm

Labeling

*The primary amines in the side chains of lysine residues and the N-terminus of the protein are conjugated with FITC using standard chemical labeling method. The residual FITC is removed by molecular sieve treatment during purification process.*

Protein Ratio

The FITC to protein molar ratio is 1.5-3.5.

Purity

>95% as determined by SDS-PAGE.

Formulation

Lyophilized from 0.22 µm filtered solution in PBS, 0.2 M Arginine, 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

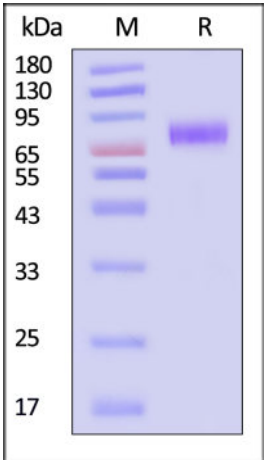
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*Please protect from light and 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



FITC-Labeled Human IL-15 R alpha, Fc Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the

SEC-MALS

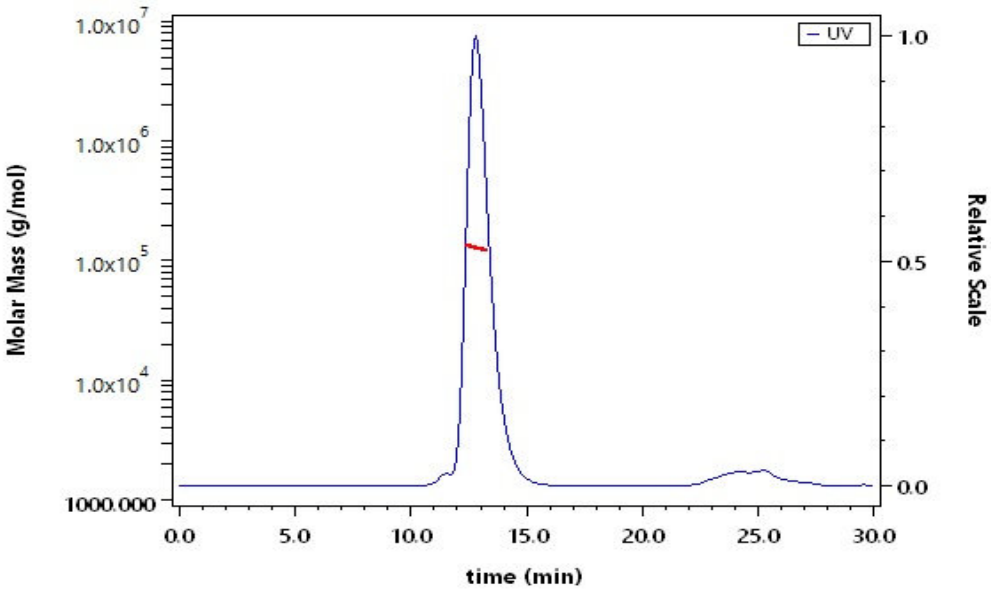


FITC-Labeled Human IL-15 R alpha / CD215 Protein, Fc Tag (MALS verified)

Catalog # ILA-HF255



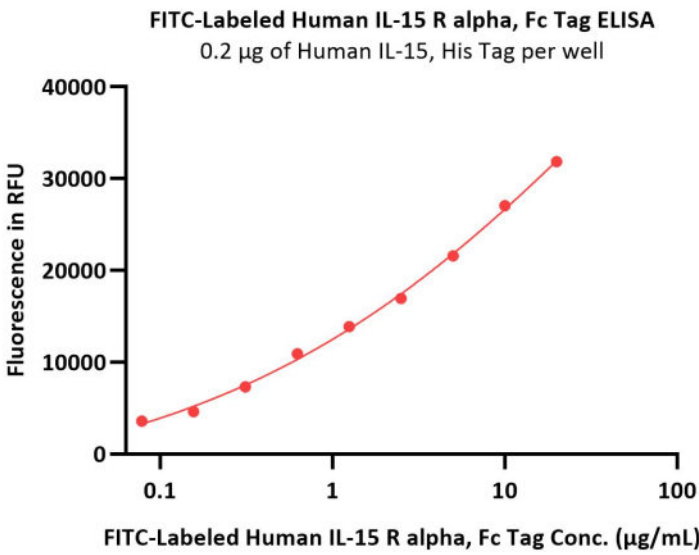
protein is greater than 95% (With [Star Ribbon Pre-stained Protein Marker](#)).



The purity of FITC-Labeled Human IL-15 R alpha, Fc Tag (Cat. No. ILA-HF255) is more than 85% and the molecular weight of this protein is around 115-140 kDa verified by SEC-MALS.

[Report](#)

Bioactivity-ELISA



Immobilized Human IL-15, His Tag (Cat. No. IL5-H52H8) at 2 µg/mL (100 µL/well) can bind FITC-Labeled Human IL-15 R alpha, Fc Tag (Cat. No. ILA-HF255) with a linear range of 0.078-5 µg/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  $\alpha$  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.

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and more!

