

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

Catalog # ILA-H5253



BIOSYSTEMS
Acro

Synonym

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

Source

Human IL-15 R alpha, Fc Tag (ILA-H5253) 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
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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 65-95 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE) due to glycosylation.

Endotoxin

Less than 0.01 EU per µg by the LAL method / rFC method.

Purity

>95% 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.

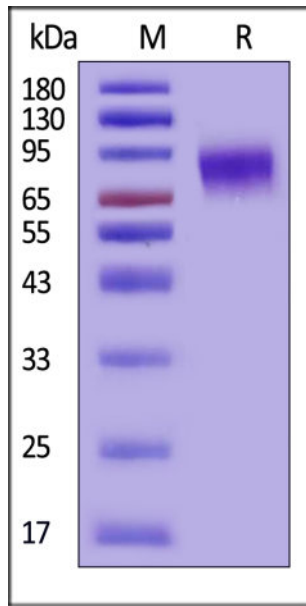
This product is stable after storage at:

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

ACRO Quality Management System

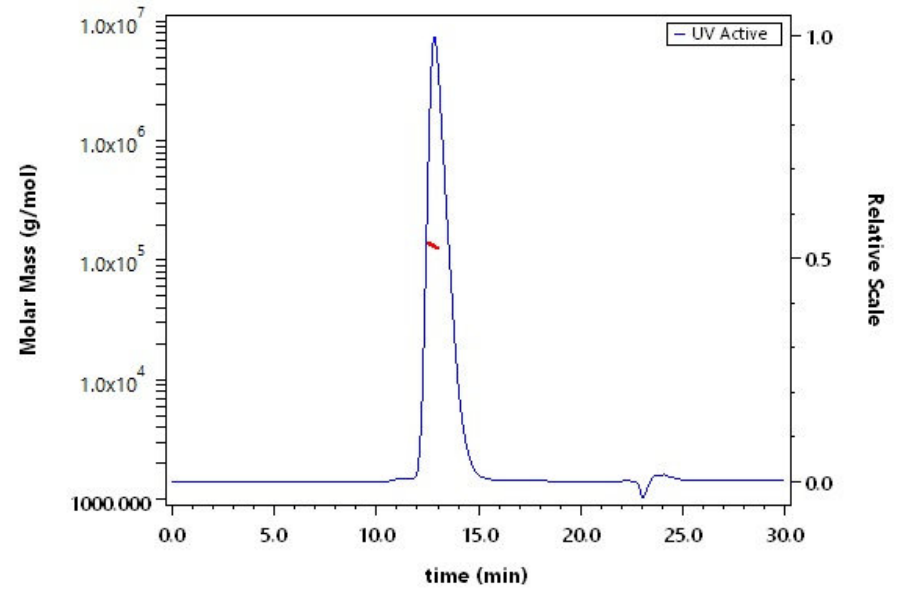
- [QMS\(ISO, GMP\)](#)
- [Quality Advantages](#)
- [Quality Control Process](#)

SDS-PAGE



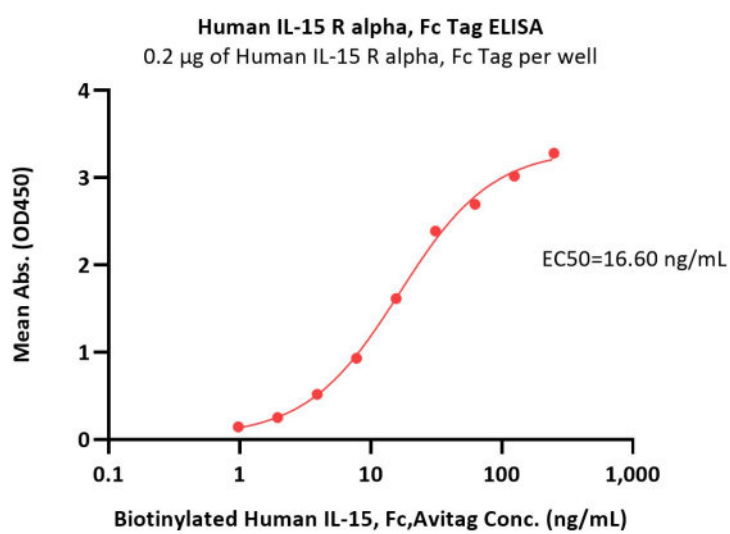
Human IL-15 R alpha, Fc Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95% (With [Star Ribbon Pre-stained Protein Marker](#)).

SEC-MALS



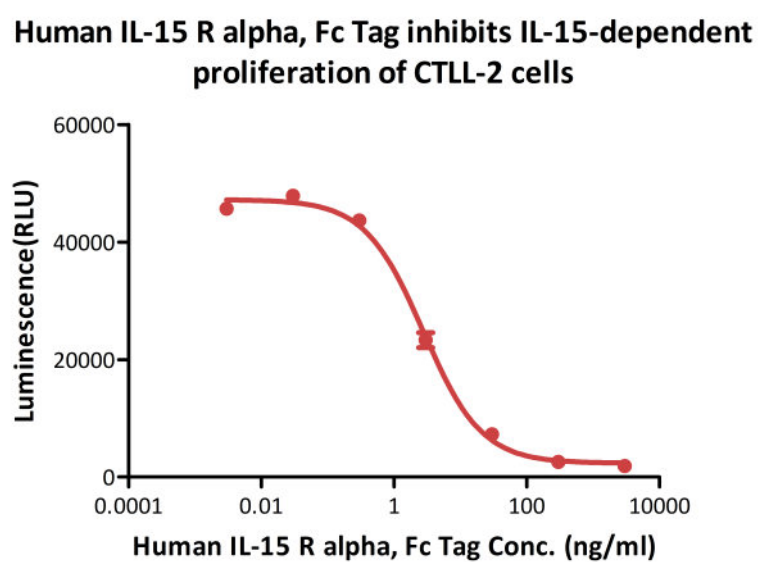
The purity of Human IL-15 R alpha, Fc Tag (Cat. No. ILA-H5253) is more than 95% and the molecular weight of this protein is around 120-156 kDa verified by SEC-MALS.

Bioactivity-ELISA



Immobilized Human IL-15 R alpha, Fc Tag (Cat. No. ILA-H5253) at 2 µg/mL (100 µL/well) can bind Biotinylated Human IL-15, Fc, Avitag (Cat. No. IL5-H82F3) with a linear range of 1-31 ng/mL (QC tested).

Bioactivity-CELL BASE



Human IL-15 R alpha, Fc Tag (Cat. No. ILA-H5253) inhibits IL-15-dependent proliferation of CTLL-2 cells. The ED50 for this effect is 2.77-4.20 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.



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