

Rat IL-17A / CTLA-8 Protein, His Tag (MALS verified)

Catalog # ILA-R5243



BIOSYSTEMS
Acro

Synonym

IL-17A, Interleukin-17A, CTLA-8, IL-17

Source

Rat IL-17A Protein, His Tag (ILA-R5243) is expressed from human 293 cells (HEK293). It contains AA Ala 18 - Ser 150 (Accession # [Q61453](#)).

Predicted N-terminus: His

Molecular Characterization

Poly-his	IL-17A(Ala 18 - Ser 150) Q61453
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This protein carries a polyhistidine tag at the N-terminus.

The protein has a calculated MW of 16.9 kDa. The protein migrates as 17-20 kDa and 23-25 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE) due to glycosylation.

The protein is designed as a dimer.

Endotoxin

Less than 1.0 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.

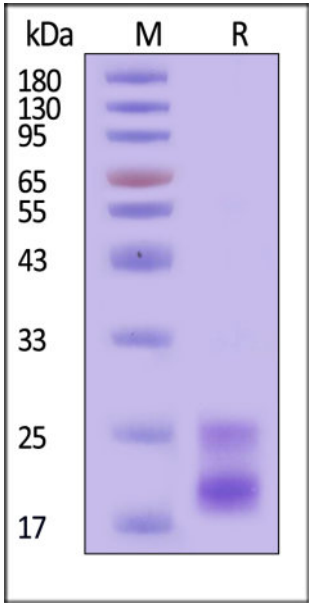
This product is stable after storage at:

- -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

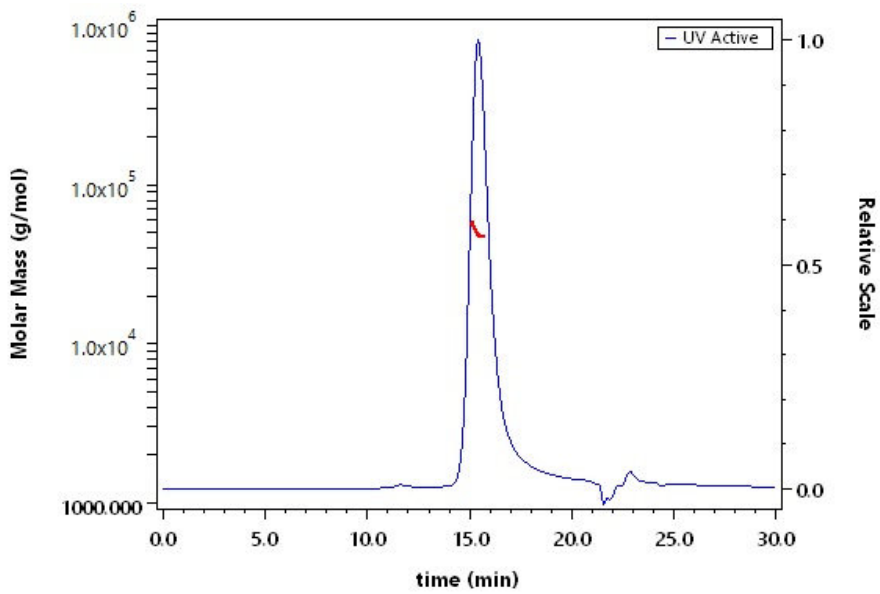
- [QMS\(ISO, GMP\)](#).
- [Quality Advantages](#)
- [Quality Control Process](#)

SDS-PAGE



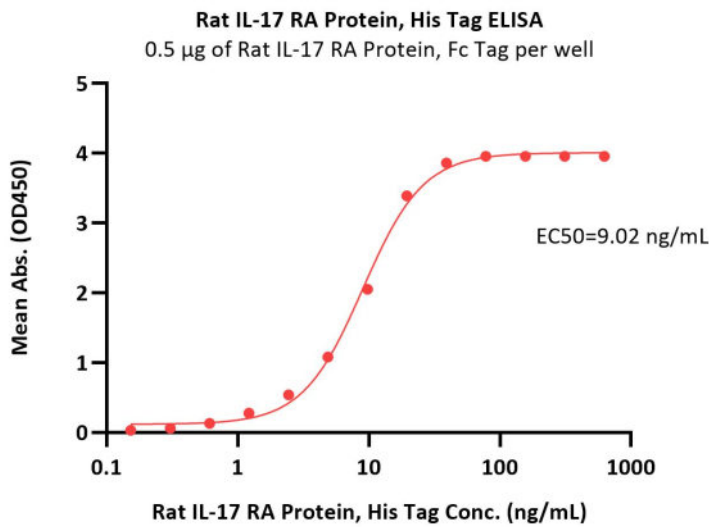
Rat IL-17A Protein, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95% (With [Star Ribbon Pre-stained Protein Marker](#)).

SEC-MALS



The purity of Rat IL-17A Protein, His Tag (Cat. No. ILA-R5243) is more than 95% and the molecular weight of this protein is around 40-55 kDa verified by SEC-MALS.

Bioactivity-ELISA



Immobilized Rat IL-17 RA Protein, Fc Tag (Cat. No. ILA-R5253) at 5 µg/mL (100 µL/well) can bind Rat IL-17 RA Protein, His Tag (Cat. No. ILA-R5243) with a linear range of 0.2-20 ng/mL (QC tested).

Background

Interleukin-17A (IL17A) is also known as cytotoxic T-lymphocyte-associated antigen 8 (CTLA8), which is a proinflammatory cytokine produced by activated T cells. IL17A can regulate the activities of NF-κB and mitogen-activated protein kinases. Also, IL17A can stimulate the expression of IL6 and cyclooxygenase-2 (PTGS2/COX-2), as well as enhance the production of nitric oxide (NO). Furthermore, IL17A has been found both in glycosylated and nonglycosylated forms. High levels of IL-17 are associated with several chronic inflammatory diseases including rheumatoid arthritis, psoriasis and multiple sclerosis.

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