

**Synonym**

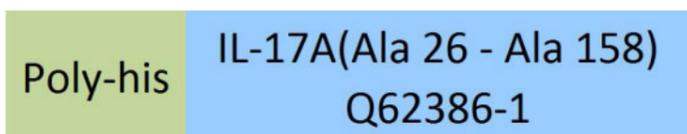
IL-17A, Interleukin-17A, CTLA-8, IL-17

**Source**

Mouse IL-17A, His Tag(CT8-M5240) is expressed from human 293 cells (HEK293). It contains AA Ala 26 - Ala 158 (Accession # [Q62386-1](#)).

Predicted N-terminus: His

**Molecular Characterization**



This protein carries a polyhistidine tag at the N-terminus

The protein has a calculated MW of 15.8 kDa. The protein migrates as 17-19 kDa and 21-24 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

**Endotoxin**

Less than 1.0 EU per µg by the LAL method.

**Purity**

>90% as determined by SDS-PAGE.

**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**

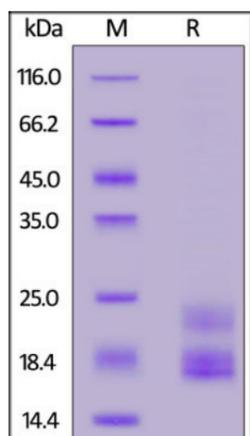
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*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.

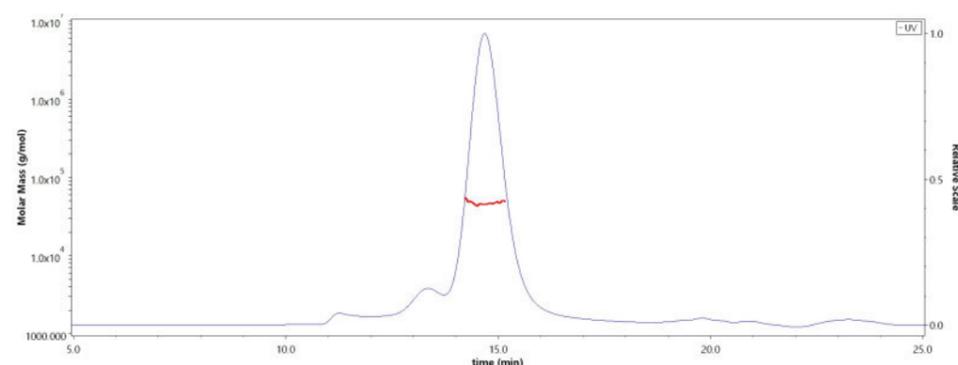
**SDS-PAGE**



Mouse IL-17A, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90%.

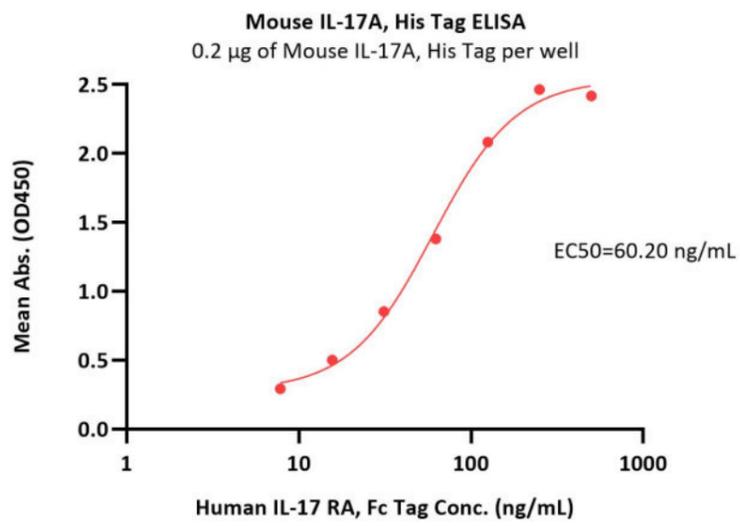
**Bioactivity-ELISA**

**SEC-MALS**



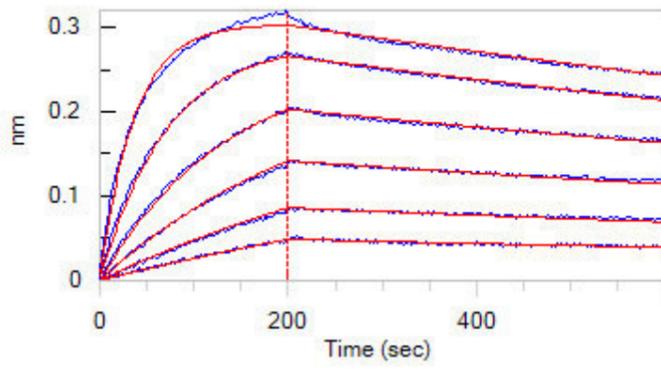
The purity of Mouse IL-17A, His Tag (Cat. No. CT8-M5240) is more than 85% and the molecular weight of this protein is around 35-50 kDa verified by SEC-MALS.

[Report](#)



Immobilized Mouse IL-17A, His Tag (Cat. No. CT8-M5240) at 2 µg/mL (100 µL/well) can bind Human IL-17 RA, Fc Tag (Cat. No. ILA-H5257) with a linear range of 4-125 ng/mL (QC tested).

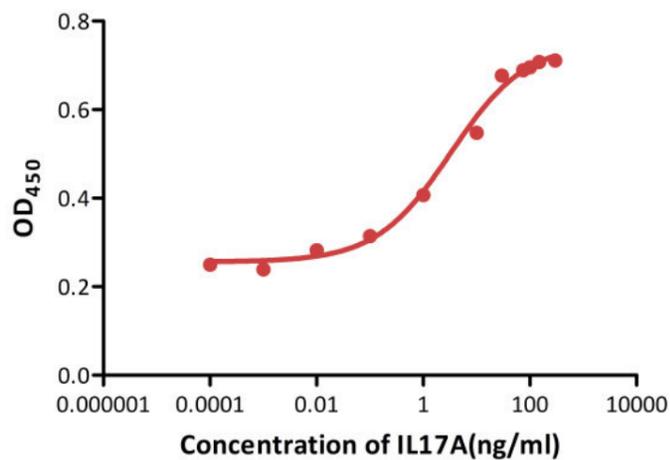
**Bioactivity-BLI**



Loaded Human IL-17 RA, Fc Tag (Cat. No. ILA-H5257) on Protein A Biosensor, can bind Mouse IL-17A, His Tag (Cat. No. CT8-M5240) with an affinity constant of 20.1 nM as determined in BLI assay (ForteBio Octet Red96e) (Routinely tested).

**Bioactivity-Bioactivity CELL BASE**

**IL-17A stimulates production of IL-6 in NIH-3T3 cells**



Mouse IL-17A, His Tag (Cat. No. CT8-M5240) stimulates secretion of IL-6 by NIH-3T3 cells. The ED50 for this effect is 2.132-5.005 ng/mL.

## 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-kappaB 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.

## Clinical and Translational Updates

Please contact us via [TechSupport@acrobiosystems.com](mailto:TechSupport@acrobiosystems.com) if you have any question on this product.