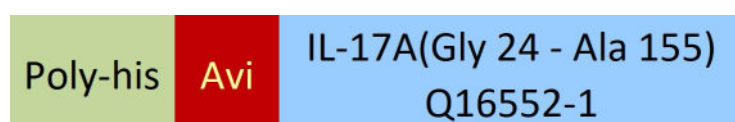


**Synonym**

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

**Source**

Biotinylated Human IL17A, His,Avitag(ILA-H82Q1) is expressed from human 293 cells (HEK293). It contains AA Gly 24 - Ala 155 (Accession # [Q16552-1](#)).  
 Predicted N-terminus: His

**Molecular Characterization**

This protein carries a polyhistidine tag at the N-terminus, followed by an Avi tag (Avitag™)

The protein has a calculated MW of 17.8 kDa. The protein migrates as 19-21 kDa and 23-25 kDa 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.

**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.*

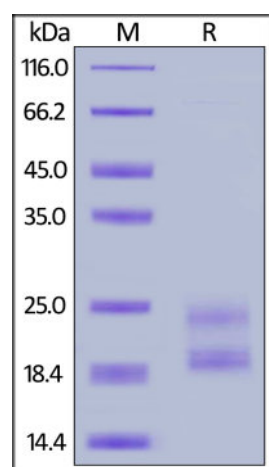
**Storage**

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

*Please avoid repeated freeze-thaw cycles.*

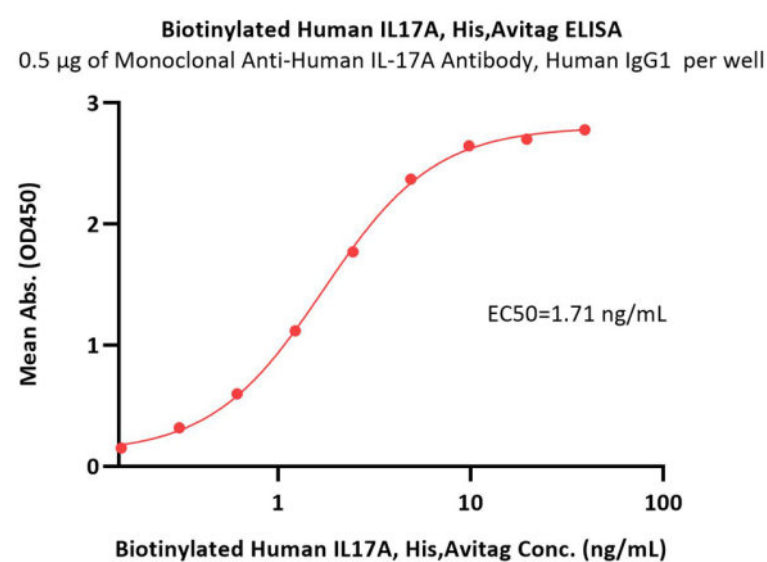
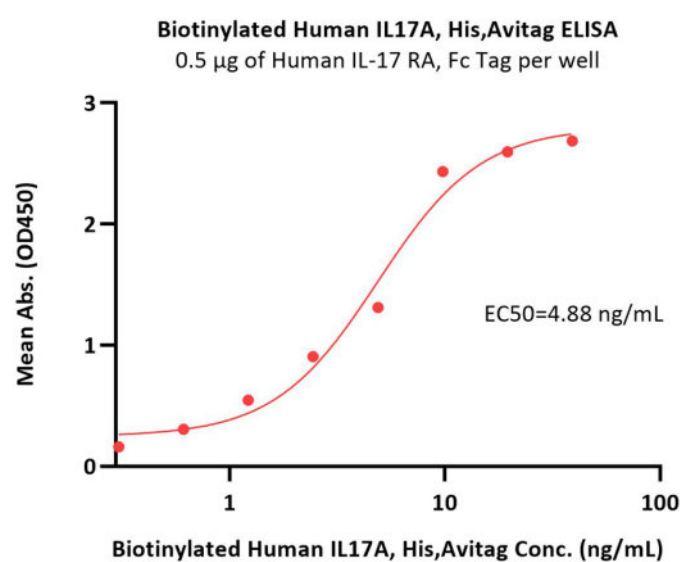
This product is stable after storage at:

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

**SDS-PAGE**

Biotinylated Human IL17A, 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%.

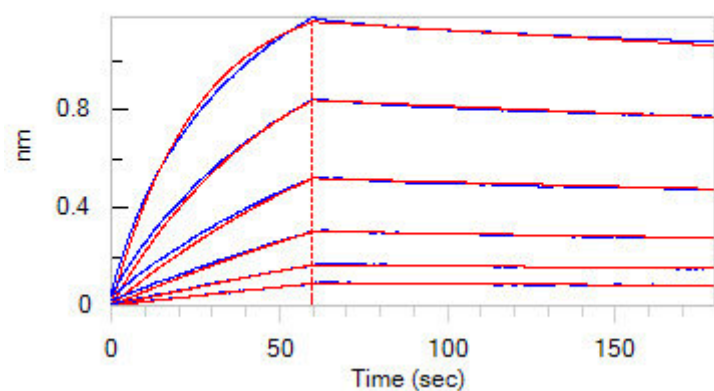
**Bioactivity-ELISA**



Immobilized Human IL-17 RA, Fc Tag (Cat. No. ILA-H5257) at 5 µg/mL (100 µL/well) can bind Biotinylated Human IL17A, His,Avitag (Cat. No. ILA-H82Q1) with a linear range of 0.3-10 ng/mL (QC tested).

Immobilized Monoclonal Anti-Human IL-17A Antibody, Human IgG1 at 5 µg/mL (100 µL/well) can bind Biotinylated Human IL17A, His,Avitag (Cat. No. ILA-H82Q1) with a linear range of 0.3-2 ng/mL (Routinely tested).

### Bioactivity-BLI



Loaded Biotinylated Human IL17A, His,Avitag (Cat. No. ILA-H82Q1) on SA Biosensor, can bind Human IL-17 RA, His Tag (Cat. No. ILA-H5222) with an affinity constant of 18.8 nM as determined in BLI assay (ForteBio Octet Red96e) (Routinely 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-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.