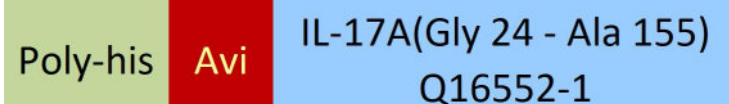


**Synonym**

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 18-21 kDa and 23-25 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) 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.

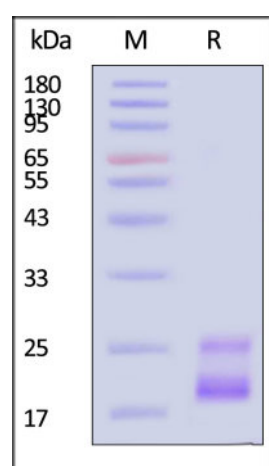
Storage

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.

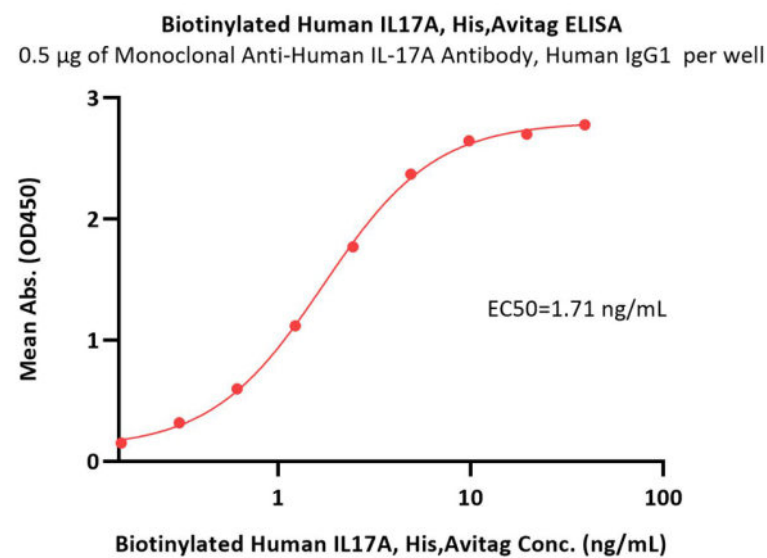
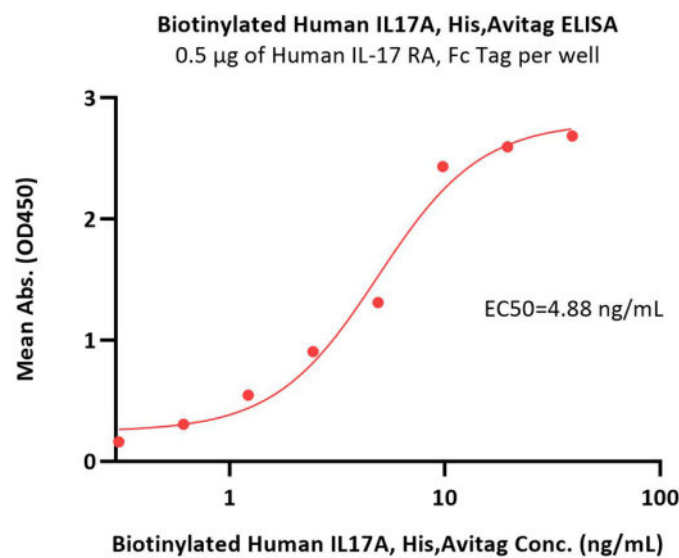
SDS-PAGE

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% (With [Star Ribbon Pre-stained Protein Marker](#)).

Bioactivity-ELISA

Discounts, Gifts,
and more!

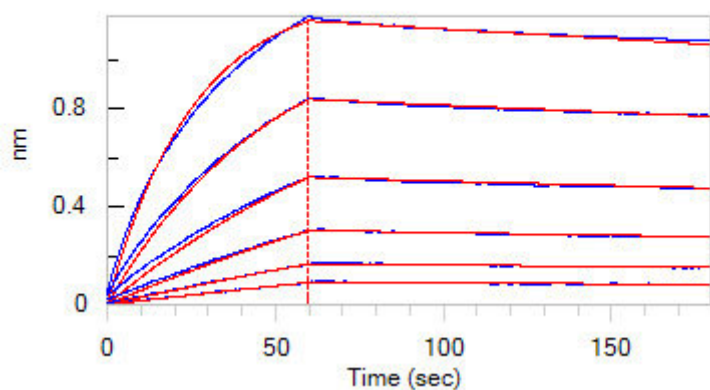




Immobilized Human IL-17 RA, Fc Tag at 5 µg/mL (100 µL/well) can bind Biotinylated Human IL17A, His,Avitag (Cat. No. ILA-H82Q1) with a linear range of 0.3-10 ng/mL (QC tested).

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

Discounts, Gifts, and more!

