



## Synonym

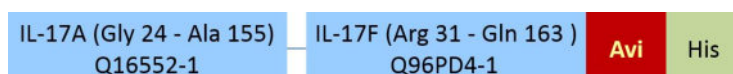
IL-17A, Interleukin-17A, CTLA-8, IL-17, IL-17F, Interleukin-17F, Cytokine ML-1, IL17A & IL17F

## Source

Biotinylated Human IL-17A&IL-17F, Avitag, His Tag (ILF-H82W1) is expressed from human 293 cells (HEK293). It contains AA Gly 24 - Ala 155 (IL-17A) & Arg 31 - Gln 163 (IL-17F) (Accession # [Q16552-1](#) (IL-17A) & [Q96PD4-1](#) (IL-17F)).

Predicted N-terminus: Gly 24

## Molecular Characterization



Subunit IL-17A&IL-17F is fused with an Avi tag (Avitag™) at the C-terminus, followed by a polyhistidine tag. The protein has a calculated MW of 34.1 kDa.

The protein migrates as 40-43 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

>95% 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

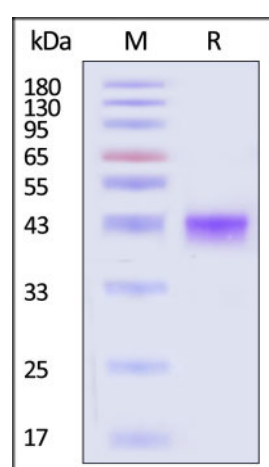
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*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

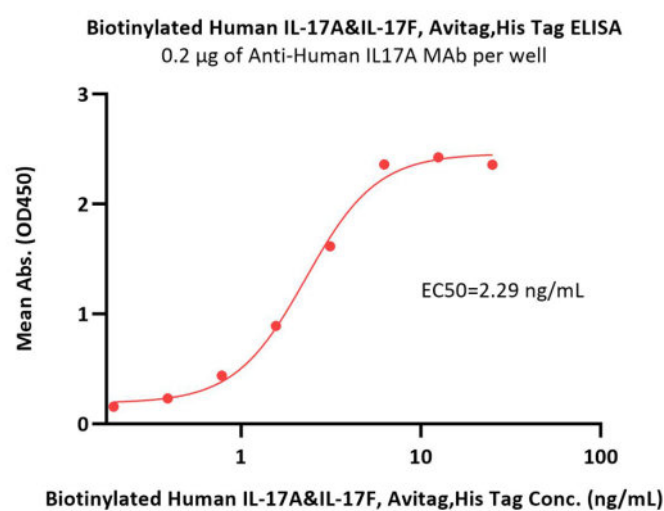


Biotinylated Human IL-17A&IL-17F, Avitag, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95% (With [Star Ribbon Pre-stained Protein Marker](#)).

## Bioactivity-ELISA

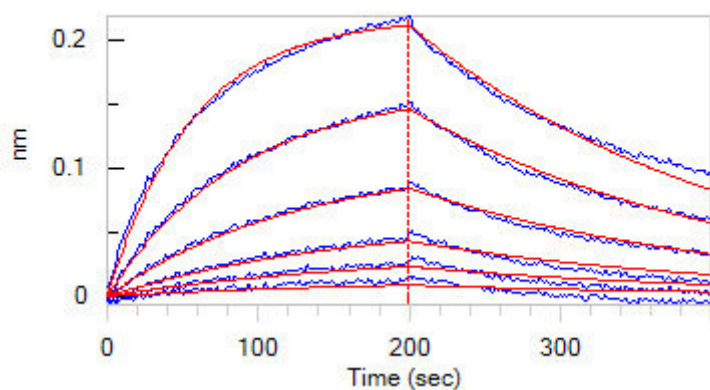
Discounts, Gifts,  
and more!



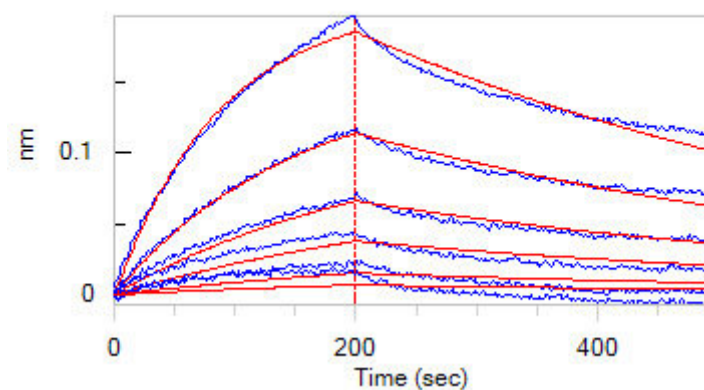


Immobilized Anti-Human IL17A MAb at 2 µg/mL (100 µL/well) can bind Biotinylated Human IL-17A&IL-17F, Avitag,His Tag (Cat. No. ILF-H82W1) with a linear range of 0.2-6 ng/mL (QC tested).

## Bioactivity-BLI



Loaded Biotinylated Human IL-17A&IL-17F, Avitag,His Tag (Cat. No. ILF-H82W1) on SA Biosensor, can bind Human IL-17 RA, His Tag (Cat. No. ILA-H5222) with an affinity constant of 352 nM as determined in BLI assay (ForteBio Octet Red96e) (Routinely tested).



Loaded Biotinylated Human IL-17A&IL-17F, Avitag,His Tag (Cat. No. ILF-H82W1) on SA Biosensor, can bind human IL-17 RC, Fc Tag (Cat. No. ILC-H5259) with an affinity constant of 217 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!

