



## Synonym

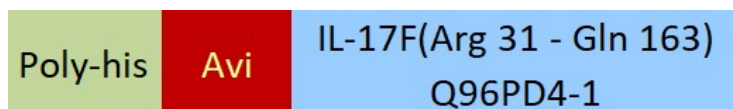
IL-17F, Interleukin-17F, Cytokine ML-1

## Source

Biotinylated Human IL-17F, His,Avitag(ILF-H82Q9) is expressed from human 293 cells (HEK293). It contains AA Arg 31 - Gln 163 (Accession # [Q96PD4-1](#)).

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 18.5 kDa. The protein migrates as 25-28 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

>95% as determined by SDS-PAGE.

>90% 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

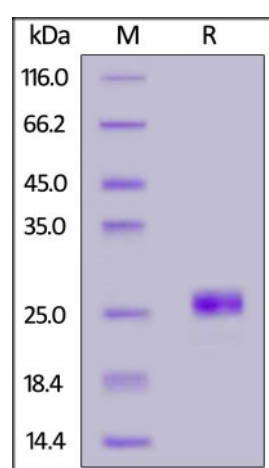
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*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.

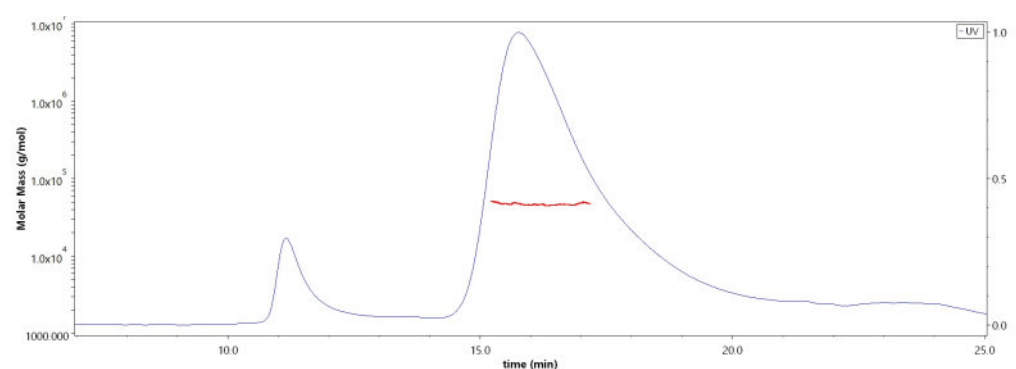
## SDS-PAGE



Biotinylated Human IL-17F, His,Avitag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95%.

## Bioactivity-ELISA

## SEC-MALS



The purity of Biotinylated Human IL-17F, His,Avitag (Cat. No. ILF-H82Q9) is more than 90% and the molecular weight of this protein is around 37-55 kDa verified by SEC-MALS.

[Report](#)

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and more!

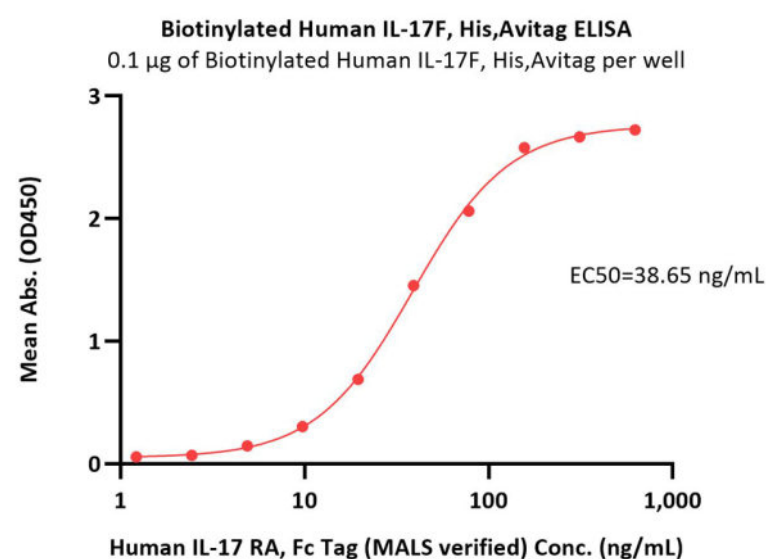
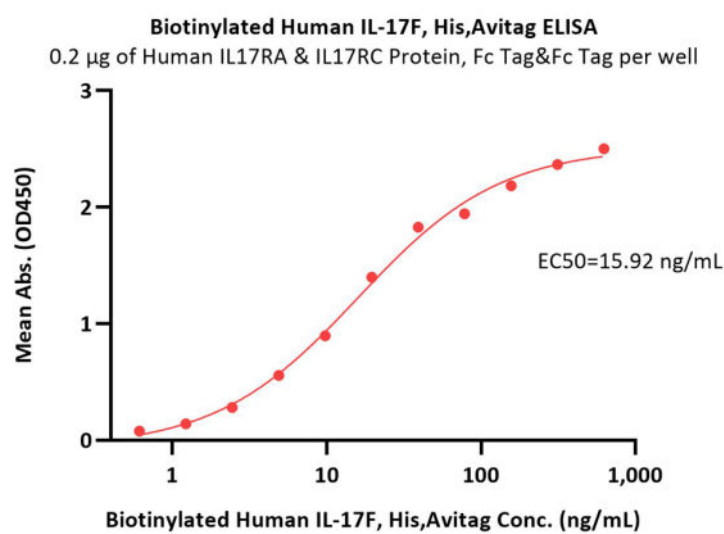


# Biotinylated Human IL-17F Protein, His,Avitag™ (MALS verified)

Catalog # ILF-H82Q9

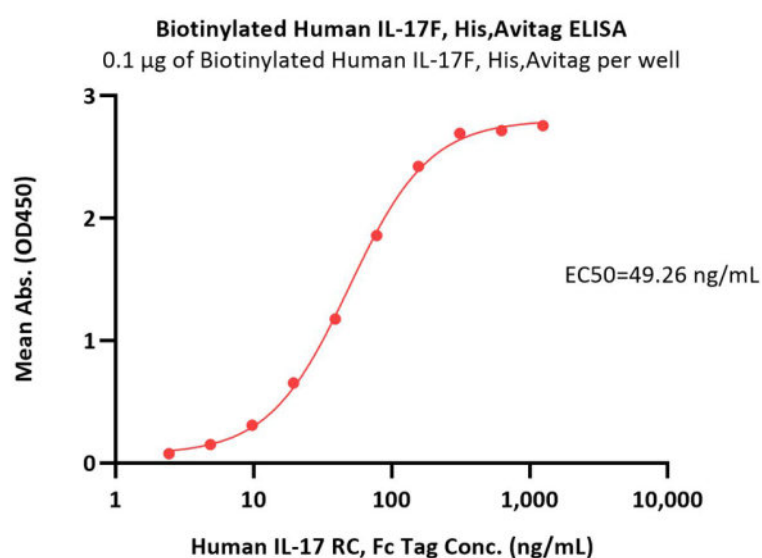


BIOSYSTEMS  
**Acro**



Immobilized Human IL17RA & IL17RC Protein, Fc Tag&Fc Tag (Cat. No. ILC-H5257) at 2 µg/mL (100 µL/well) can bind Biotinylated Human IL-17F, His,Avitag (Cat. No. ILF-H82Q9) with a linear range of 0.6-78 ng/mL (QC tested).

Immobilized Biotinylated Human IL-17F, His,Avitag (Cat. No. ILF-H82Q9) at 1 µg/mL (100 µL/well) on streptavidin (Cat. No. STN-N5116)precoated (0.5 µg/well) plate can bind Human IL-17 RA, Fc Tag (MALS verified) with a linear range of 1-78 ng/mL (Routinely tested).



Immobilized Biotinylated Human IL-17F, His,Avitag (Cat. No. ILF-H82Q9) at 1 µg/mL (100 µL/well) on streptavidin (Cat. No. STN-N5116) precoated (0.5 µg/well) plate can bind Human IL-17 RC, Fc Tag (Cat. No. ILC-H5259) with a linear range of 2-156 ng/mL (Routinely tested).

## Background

Interleukin-17F (IL17F) is also known as Interleukin-24 (IL24), Cytokine ML-1, is a secreted disulfide-linked homodimer which belongs to the IL-17 family. There are at least six members of the IL-17 family in humans and in mice: IL-17A, IL-17B, IL-17C, IL-17D, IL-17E (also called IL-25) and IL-17F (also called IL-24). IL-17 represents a family of structurally related cytokines that share a highly conserved C-terminal region but differ from one another in their N-terminal regions and in their distinct biological roles. IL-17F / IL-24 is expressed in activated, but not resting, CD4<sup>+</sup> T-cells and activated monocytes. IL17F / Interleukin-24 stimulates the production of other cytokines such as IL-6, IL-8 and granulocyte colony-stimulating factor, and can regulate cartilage matrix turnover. IL17F / IL-24 stimulates PBMC and T-cell proliferation and Inhibits angiogenesis. Defects in IL17F are the cause of familial candidiasis type 6 (CANDF6).

## Clinical and Translational Updates

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6/11/2024