

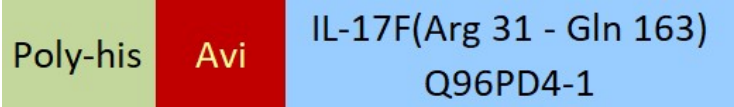
Synonym

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.

The protein is designed as a dimer.

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.

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

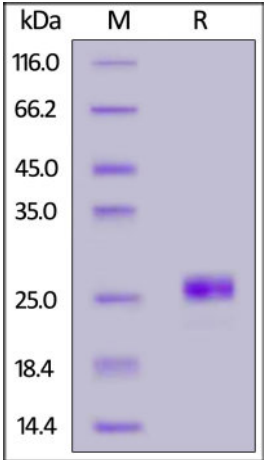
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

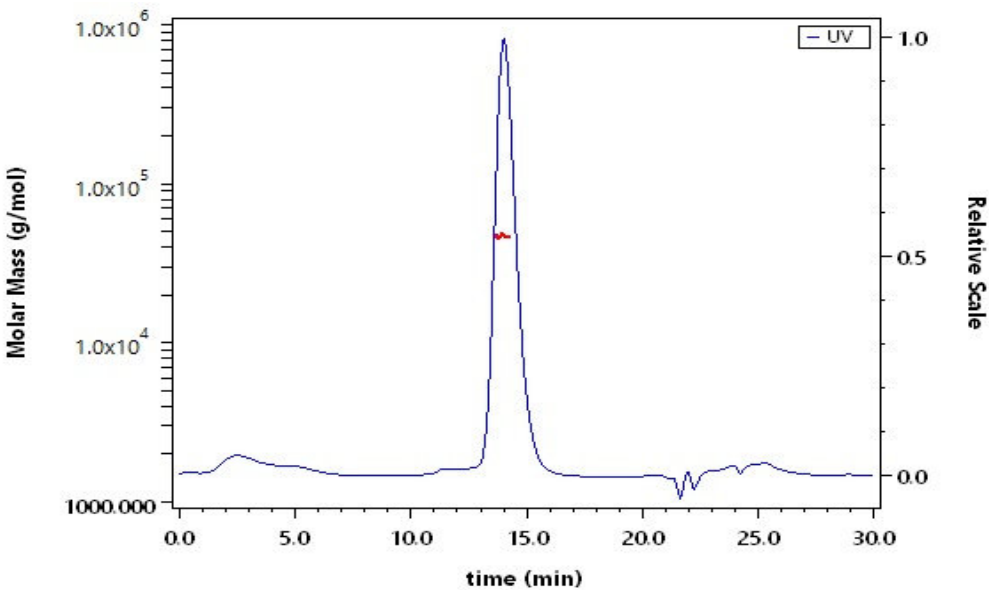
- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

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%.

SEC-MALS

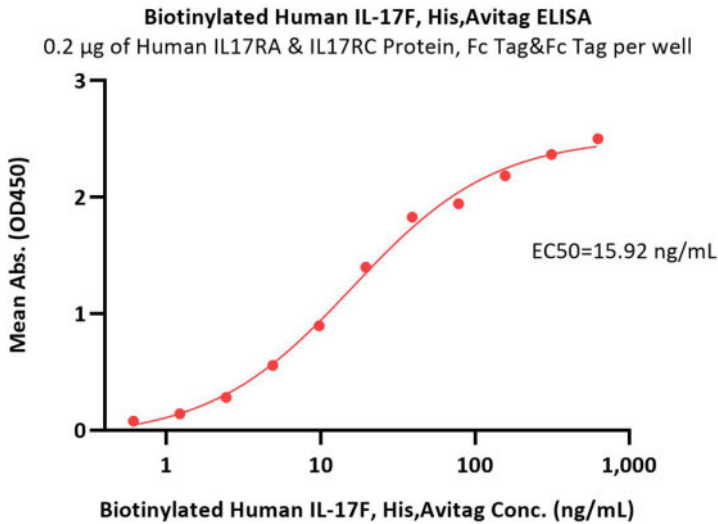


The purity of Biotinylated Human IL-17F, His,Avitag (Cat. No. ILF-H82Q9) is more than 90% and the molecular weight of this protein is around 37-55 kDa verified by SEC-MALS.

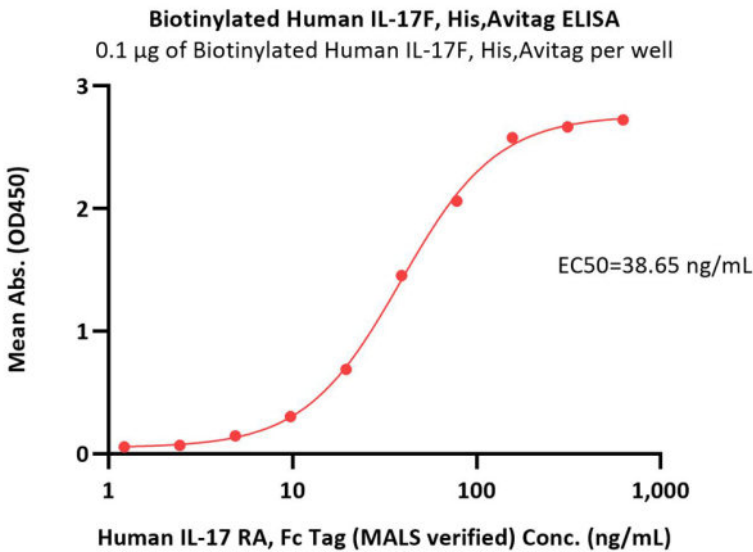
[Report](#)

Bioactivity-ELISA

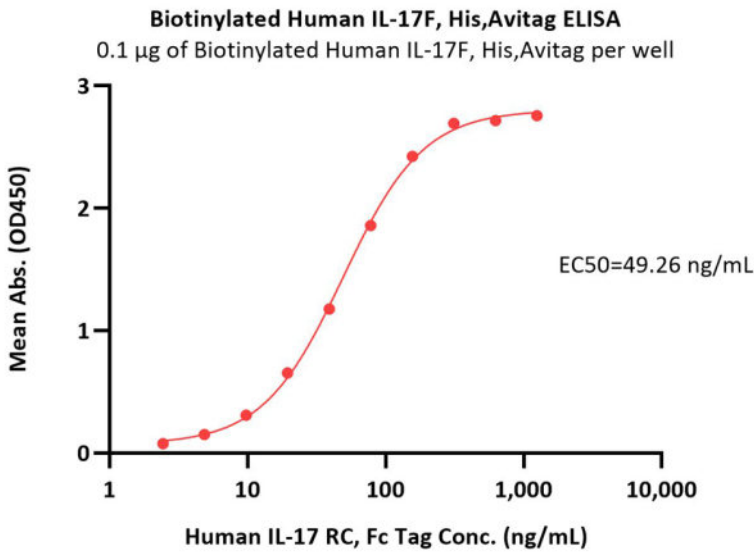




Immobilized Human IL17RA & IL17RC Protein, Fc Tag&Fc Tag (Cat. No. ILC-H5257) at 2 µg/mL (100 µL/well) can bind Biotinylated Human IL-17F, His,Avitag (Cat. No. ILF-H82Q9) with a linear range of 0.6-78 ng/mL (QC tested).



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 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+ 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).

