

Synonym

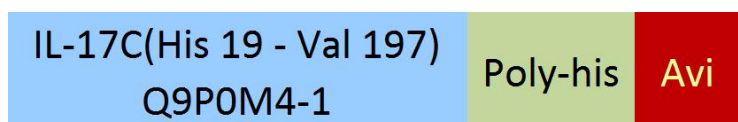
IL-17C,Cytokine CX2,IL17C

Source

Biotinylated Human IL-17C, His,Avitag(ILC-H82E5) is expressed from human 293 cells (HEK293). It contains AA His 19 - Val 197 (Accession # [Q9P0M4-1](#)).

Predicted N-terminus: His 19

Molecular Characterization



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

The protein has a calculated MW of 23.3 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

>90% as determined by SDS-PAGE.

>90% as determined by SEC-MALS.

Formulation

Lyophilized from 0.22 µm filtered solution in PBS, 0.5 M Arginine, 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

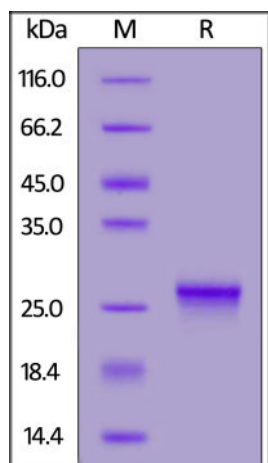
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

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.

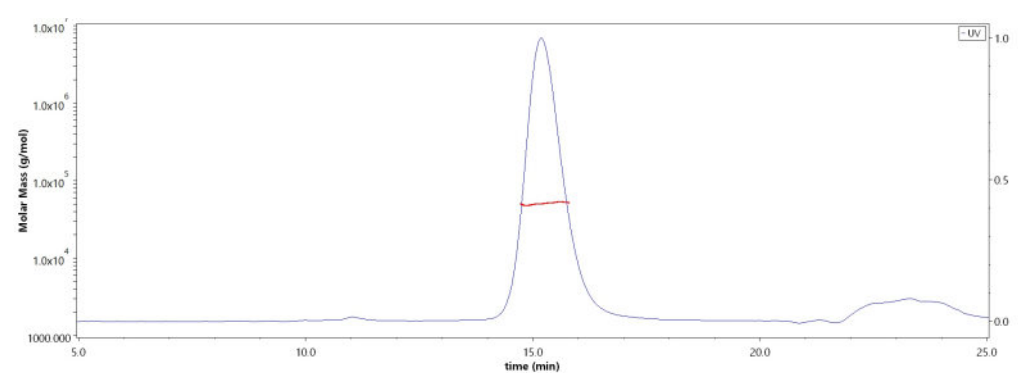
SDS-PAGE



Biotinylated Human IL-17C, 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%.

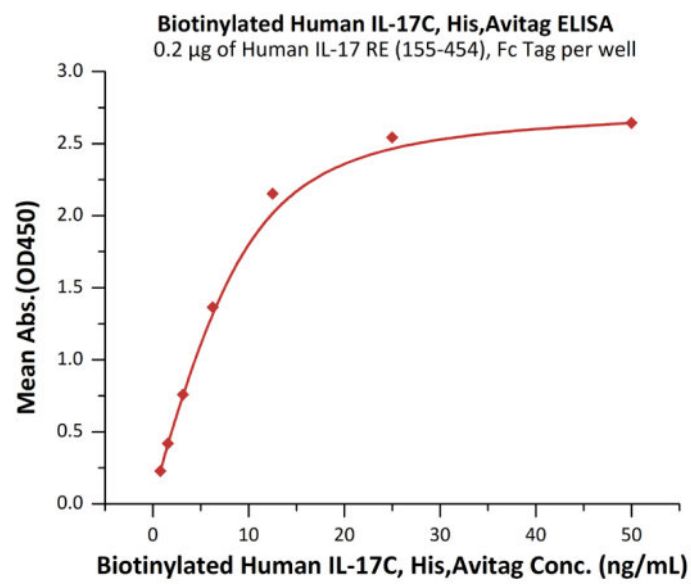
Bioactivity-ELISA

SEC-MALS



The purity of Biotinylated Human IL-17C, His,Avitag (Cat. No. ILC-H82E5) is more than 90% and the molecular weight of this protein is around 47-63 kDa verified by SEC-MALS.

[Report](#)



Immobilized Human IL-17 RE (155-454), Fc Tag (Cat. No. ILE-H5256) at 2 µg/mL (100 µL/well) can bind Biotinylated Human IL-17C, His,Avitag (Cat. No. ILC-H82E5) with a linear range of 0.8-13 ng/mL (QC tested).

Background

Interleukin-17C(IL-17C) is a glycosylated cytokine that plays an important role in mucosal immunity and chronic inflammation. IL-17C binds to IL-17 RE with high affinity and to IL-17 RA with low affinity, binds to a heterodimer formed by IL17RA and IL17RE. Enhanced IL17C/IL17RE signaling may also lead to greater susceptibility to autoimmune diseases. Stimulates the production of antibacterial peptides and proinflammatory molecules for host defense by signaling through the NF-kappa-B and MAPK pathways. Acts synergically with IL22 in inducing the expression of antibacterial peptides, including S100A8, S100A9, REG3A and REG3G. Synergy is also observed with TNF and IL1B in inducing DEFB2 from keratinocytes.

Clinical and Translational Updates

Please contact us via TechSupport@acrobiosystems.com if you have any question on this product.