

**Synonym**

IL-17C,Cytokine CX2,IL17C

**Source**Human IL-17C, His Tag(ILC-H52H7) is expressed from human 293 cells (HEK293). It contains AA His 19 - Val 197 (Accession # [Q9P0M4-1](#)).

Predicted N-terminus: His 19

**Molecular Characterization**IL-17C(His 19 - Val 197)  
Q9P0M4-1

Poly-his

This protein carries a polyhistidine tag at the C-terminus

The protein has a calculated MW of 21.6 kDa. The protein migrates as 24-26 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

**Endotoxin**

Less than 1.0 EU per µg by the LAL method.

**Purity**

&gt;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.

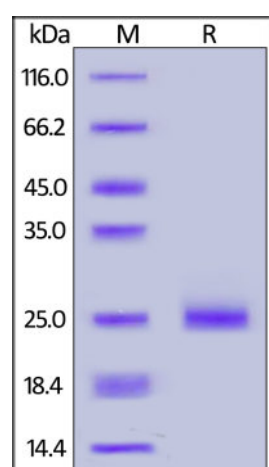
*For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.***Storage**

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

*Please avoid repeated freeze-thaw cycles.*

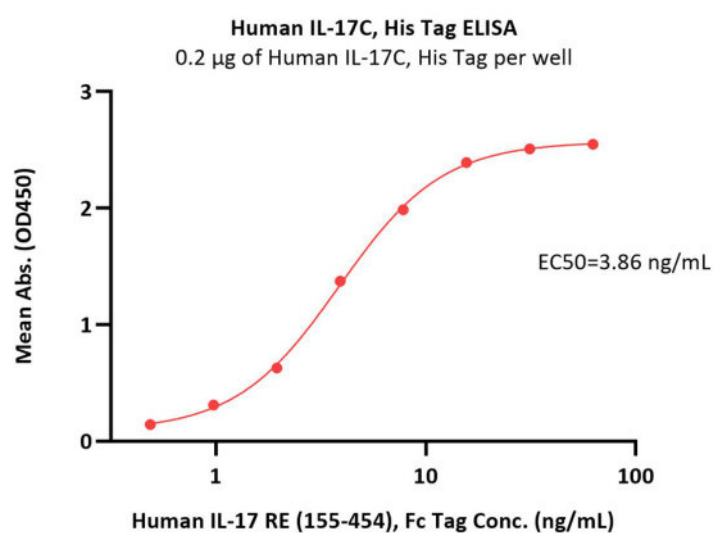
This product is stable after storage at:

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

**SDS-PAGE**

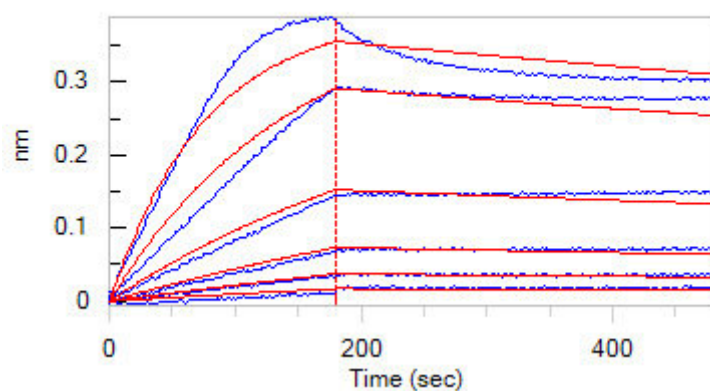
Human IL-17C, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95%.

**Bioactivity-ELISA**



Immobilized Human IL-17C, His Tag (Cat. No. ILC-H52H7) at 2 µg/mL (100 µL/well) can bind Human IL-17 RE (155-454), Fc Tag (Cat. No. ILE-H5256) with a linear range of 0.2-8 ng/mL (QC tested).

### Bioactivity-BLI



Loaded Human IL-17 RE (155-454), Fc Tag (Cat. No. ILE-H5256) on Protein A Biosensor, can bind Human IL-17C, His Tag (Cat. No. ILC-H52H7) with an affinity constant of 0.714 nM as determined in BLI assay (ForteBio Octet Red96e) (Routinely 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](mailto:TechSupport@acrobiosystems.com) if you have any question on this product.