



## 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 when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE) due to glycosylation.

## 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

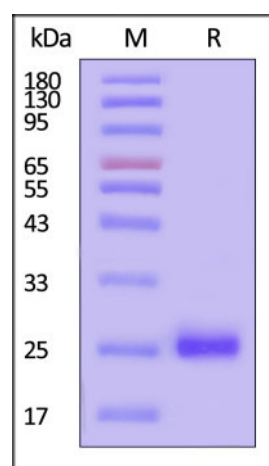
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*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

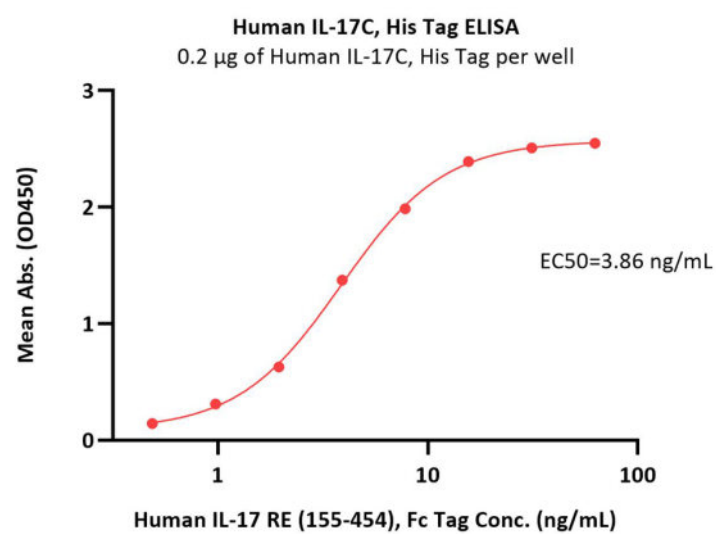


Human IL-17C, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95% (With [Star Ribbon Pre-stained Protein Marker](#)).

## Bioactivity-ELISA

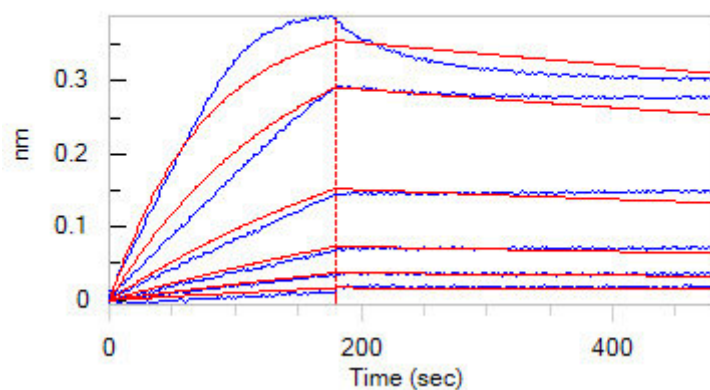
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Immobilized Human IL-17C, His Tag (Cat. No. ILC-H52H7) at 2 µg/mL (100 µL/well) can bind Human IL-17 RE (155-454), Fc Tag (Cat. No. ILE-H5256) with a linear range of 0.2-8 ng/mL (QC tested).

## 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

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