

**Synonym**

Cadherin-17,CDH17,HPT-1,LI-cadherin

**Source**

Human Cadherin-17, His Tag(CA7-H52H3) is expressed from human 293 cells (HEK293). It contains AA Gln 23 - Met 787 (Accession # [Q12864](#)).

Predicted N-terminus: Gln 23

**Molecular Characterization**

Cadherin-17(Gln 23 - Met 787)  
Q12864

Poly-his

This protein carries a polyhistidine tag at the C-terminus.

The protein has a calculated MW of 86.9 kDa. The protein migrates as 95-120 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  $\mu$ g by the LAL method / rFC method.

**Purity**

>95% as determined by SDS-PAGE.

**Formulation**

Lyophilized from 0.22  $\mu$ m filtered solution in 20 mM Tris, 150 mM NaCl, pH8.0 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.*

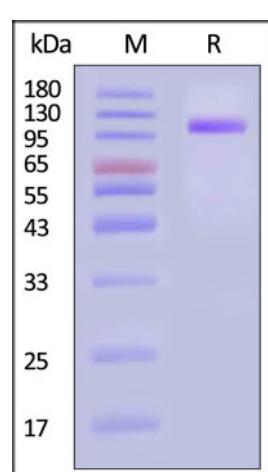
**Storage**

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 Cadherin-17, His Tag on SDS-PAGE under reducing (R) condition.

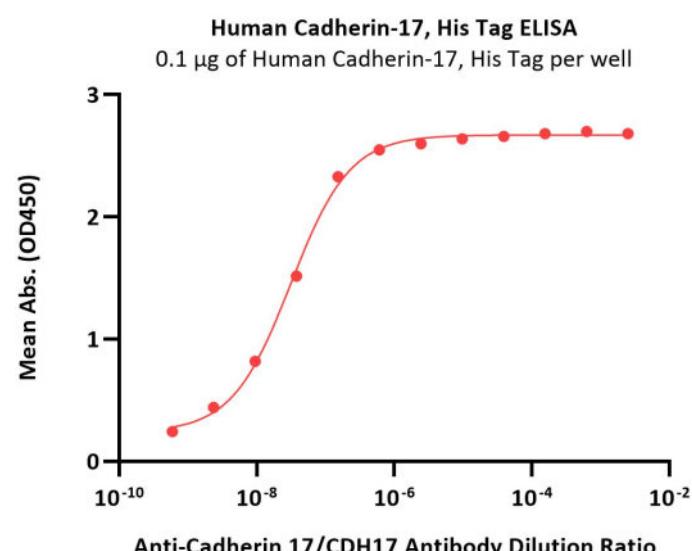
The gel was stained with Coomassie Blue. The purity of the protein is greater than 95% (With [Star Ribbon Pre-stained Protein Marker](#)).

**Bioactivity-ELISA**

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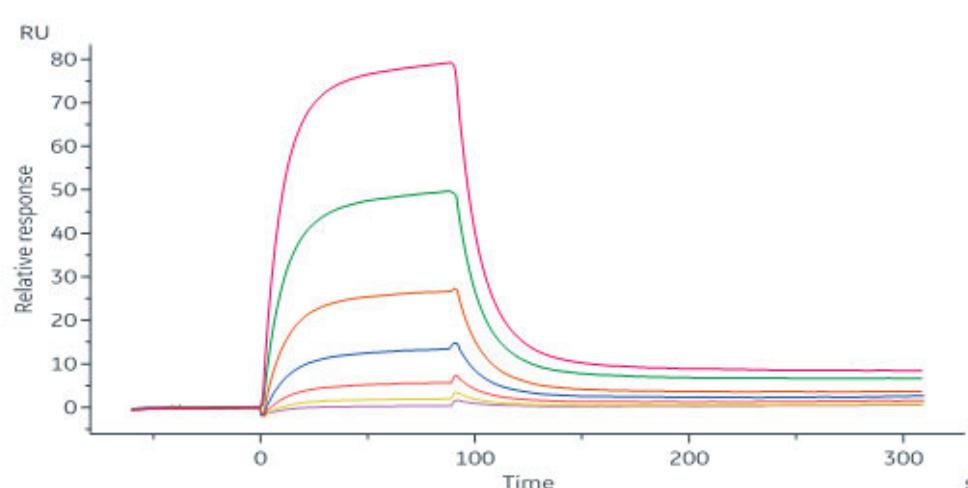


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Immobilized Human Cadherin-17, His Tag (Cat. No. CA7-H52H3) at 1 µg/mL (100 µL/well) can bind various dilution ratio of Anti-Cadherin 17/CDH17 Antibody (QC tested).

### Bioactivity-SPR



Anti-Cadherin-17 antibody captured on CM5 chip via Anti-human IgG Fc antibodies surface can bind Human Cadherin-17, His Tag (Cat. No. CA7-H52H3) with an affinity constant of 2.9 µM as determined in a SPR assay (Biacore 8K) (Routinely tested).

### Background

Cadherin-17, also known as liver-intestine (LI) Cadherin, belongs to the cadherin family of calcium-dependent cell adhesion molecules. In vivo studies showed CDH17 knockout resulted in apoptotic PC tumor death through activating caspase-3 activity. Taken together, CDH17 functions as an oncogenic molecule critical to PC growth by regulating tumor apoptosis signaling pathways and CDH17 could be targeted to develop an anti-PC therapeutic approach.

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