



## Synonym

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

## Source

Biotinylated Human Cadherin-17, His,Avitag(CA7-H52E6) is expressed from human 293 cells (HEK293). It contains AA Gln 23 - Met 787 (Accession # [Q12864-1](#)).

Predicted N-terminus: Gln 23

## Molecular Characterization

Cadherin-17(Gln 23 - Met 787)	Poly-his	Avi
Q12864-1		

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

The protein has a calculated MW of 88.6 kDa. The protein migrates as 100-115 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.

## Purity

>95% as determined by SDS-PAGE.

>90% as determined by SEC-MALS.

## Formulation

Lyophilized from 0.22 µm 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

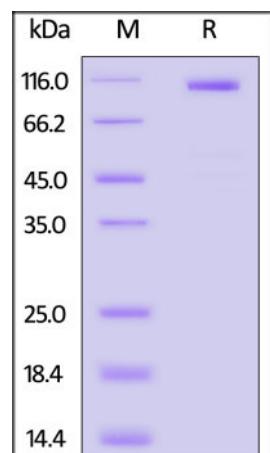
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*Please avoid repeated freeze-thaw cycles.*

This product is stable after storage at:

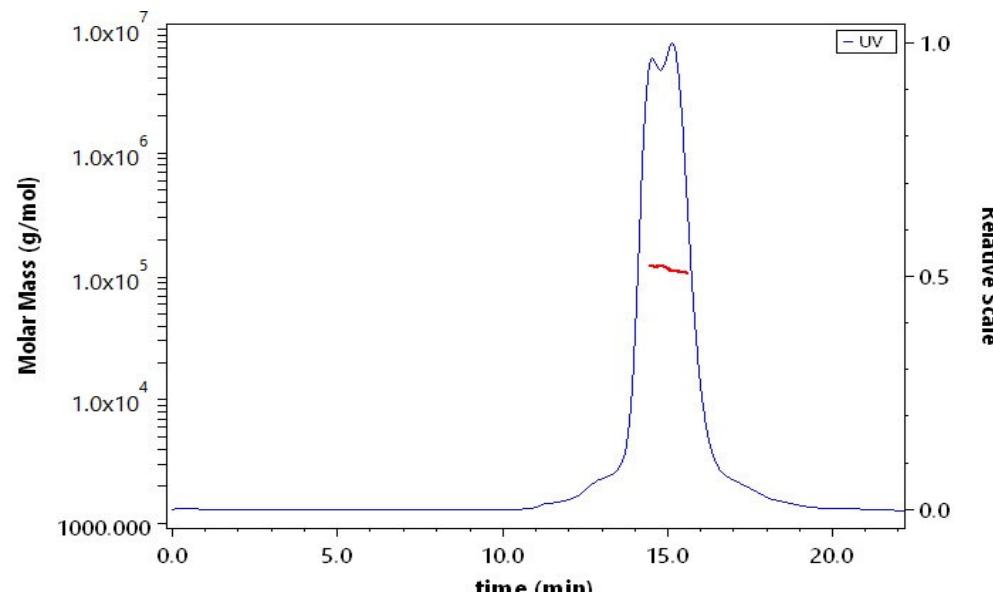
- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

## SDS-PAGE



Biotinylated Human Cadherin-17, 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 Cadherin-17, His,Avitag (Cat. No. CA7-H52E6) is more than 90% and the molecular weight of this protein is around 95-115 kDa verified by SEC-MALS.

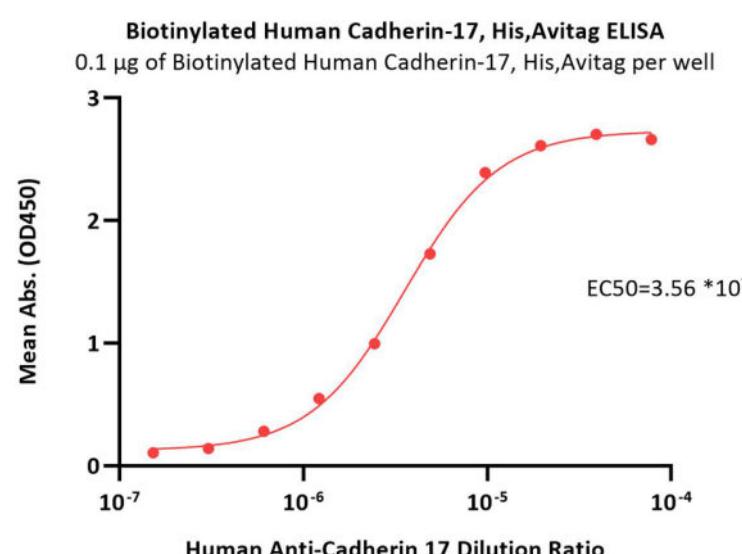
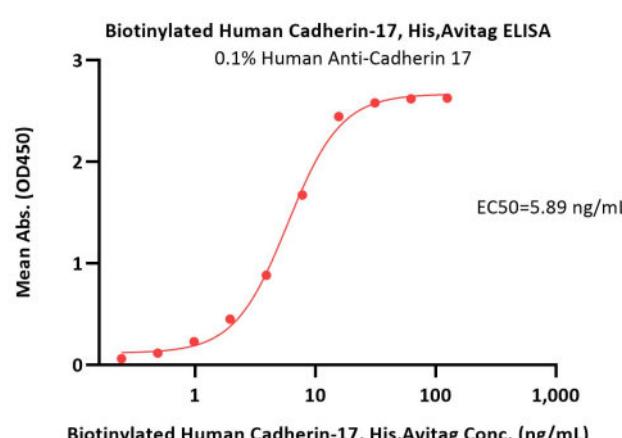
[Report](#)

## Bioactivity-ELISA

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Immobilized Human Anti-Cadherin 17 at 0.1% can bind Biotinylated Human Cadherin-17, His,Avitag (Cat. No. CA7-H52E6) with a linear range of 0.2-16 ng/mL (QC tested).

Immobilized Biotinylated Human Cadherin-17, His,Avitag (Cat. No. CA7-H52E6) at 1 µg/mL (100 µL/well) on streptavidin (Cat. No. STN-N5116) precoated (0.5 µg/well) plate can bind various dilution ratio of Human Anti-Cadherin 17 (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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