

**Synonym**

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

**Source**

Biotinylated Mouse Cadherin-17 Protein, His,Avitag(CA7-M82E7) is expressed from human 293 cells (HEK293). It contains AA Phe 26 - Met 786 (Accession # [Q9R100-1](#)).

Predicted N-terminus: Phe 26

**Molecular Characterization**

Cadherin-17(Phe 26 - Met 786) Q9R100-1	Poly-his	Avi
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This protein carries a polyhistidine tag at the C-terminus, followed by an Avi tag (Avitag™).

The protein has a calculated MW of 87.9 kDa. The protein migrates as 110-116 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**

&gt;90% as determined by SDS-PAGE.

&gt;95% 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.*

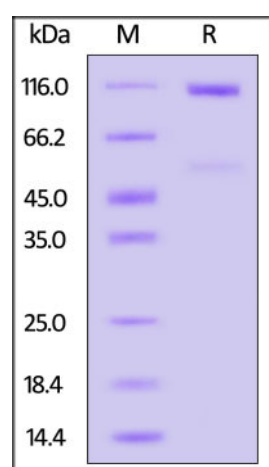
**Storage**

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

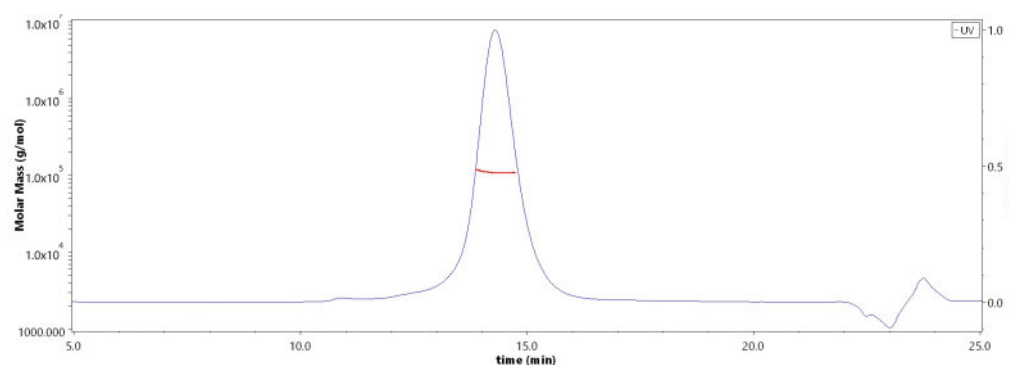
*Please avoid repeated freeze-thaw cycles.*

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.

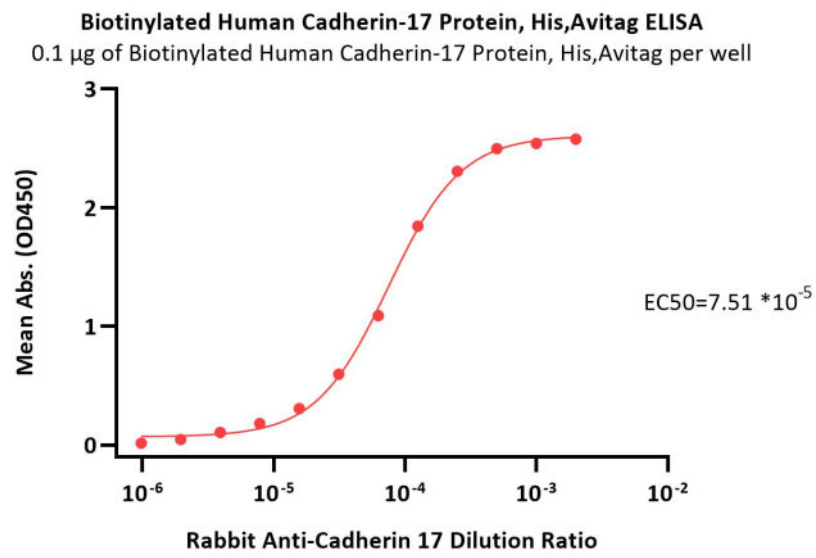
**SDS-PAGE**

Biotinylated Mouse Cadherin-17 Protein, 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 Mouse Cadherin-17 Protein, His,Avitag (Cat. No. CA7-M82E7) is more than 95% and the molecular weight of this protein is around 100-120 kDa verified by SEC-MALS.

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Immobilized Biotinylated Mouse Cadherin-17 Protein, His,Avitag (Cat. No. CA7-M82E7) 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 Rabbit Anti-Cadherin 17 (QC 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.

## Clinical and Translational Updates

Please contact us via [TechSupport@acrobiosystems.com](mailto:TechSupport@acrobiosystems.com) if you have any question on this product.

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