

**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) Q12864-1	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 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.

Endotoxin

Less than 1.0 EU per µg by the LAL method.

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.

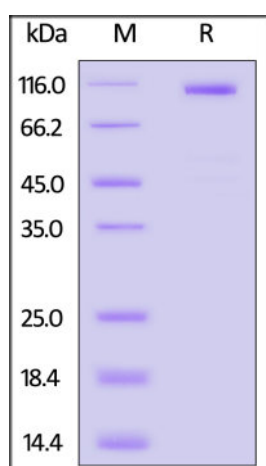
Storage

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

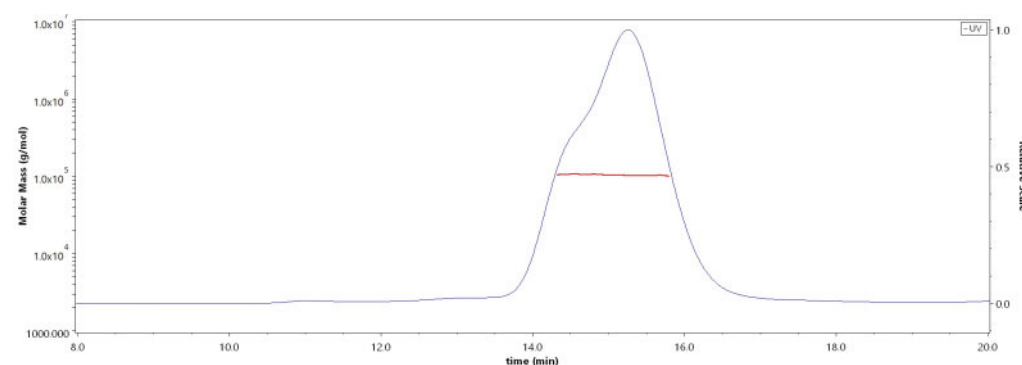
Please avoid repeated freeze-thaw cycles.

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.

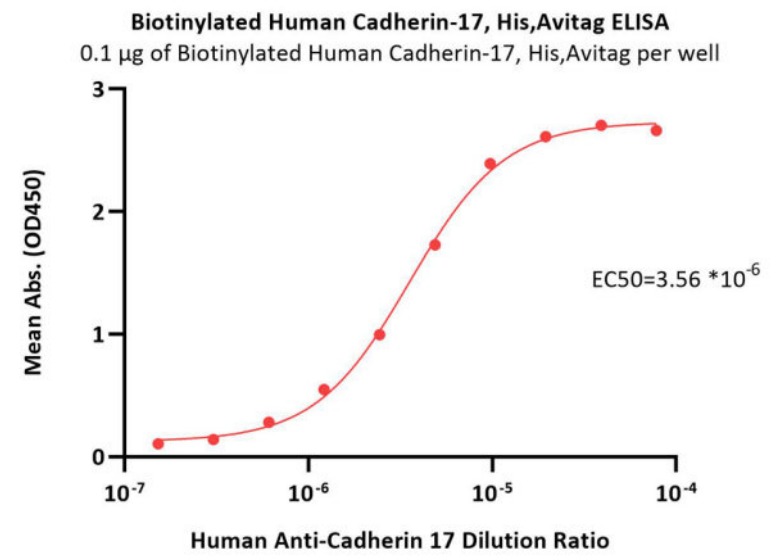
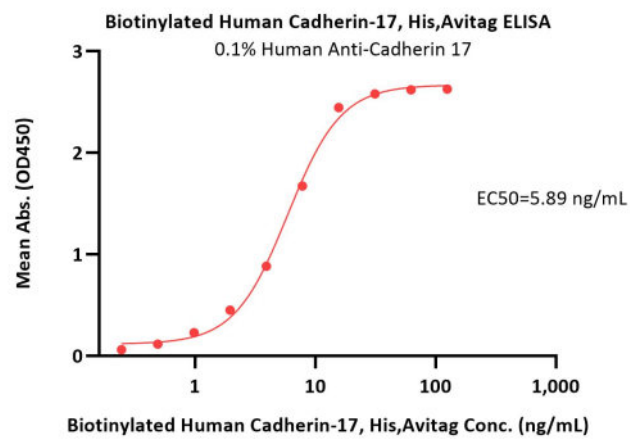
SDS-PAGE

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%.

Bioactivity-ELISA**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.

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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.

Clinical and Translational Updates

Please contact us via TechSupport@acrobiosystems.com if you have any question on this product.

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