

Synonym

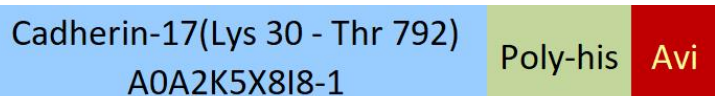
Cadherin-17,CDH17,HPT-1,LI-cadherin

Source

Biotinylated Cynomolgus Cadherin-17 Protein, His,Avitag(CA7-C82E8) is expressed from human 293 cells (HEK293). It contains AA Lys 30 - Thr 792 (Accession # [A0A2K5X8I8-1](#)).

Predicted N-terminus: Lys 30

Molecular Characterization



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

The protein has a calculated MW of 88.3 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.

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

>90% as determined by SDS-PAGE.

Formulation

Lyophilized from 0.22 µm filtered solution in 20 mM Tris, 150 mM NaCl, PH7.5 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

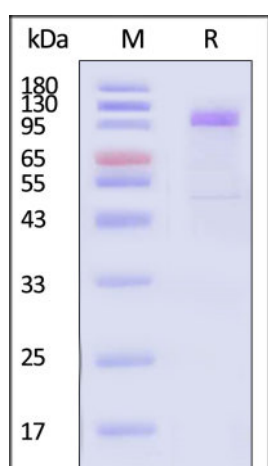
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

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.

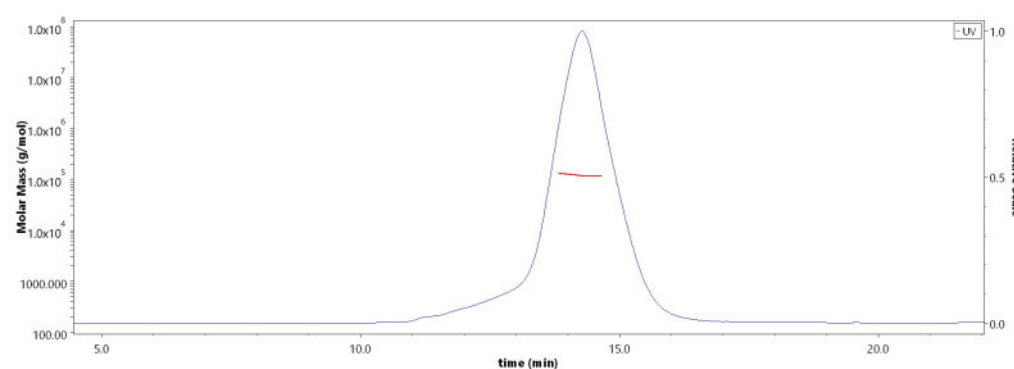
SDS-PAGE



Biotinylated Cynomolgus 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% (With [Star Ribbon Pre-stained Protein Marker](#)).

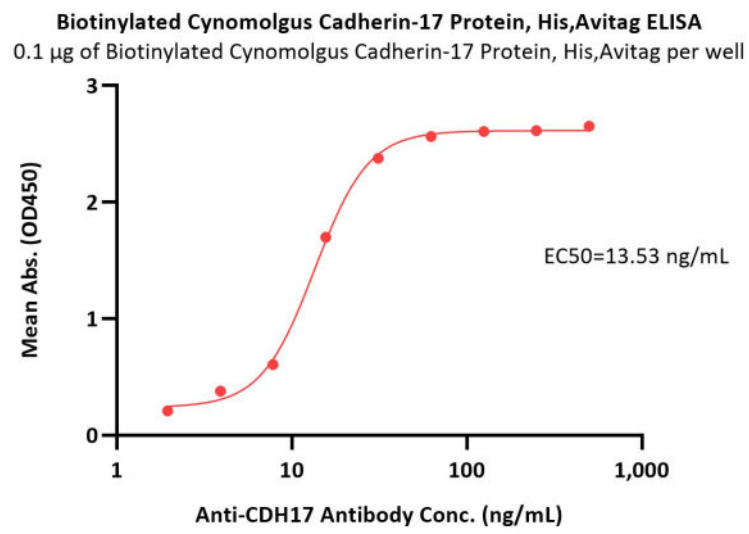
Bioactivity-ELISA

SEC-MALS



The purity of Biotinylated Cynomolgus Cadherin-17 Protein, His,Avitag (Cat. No. CA7-C82E8) is more than 85% and the molecular weight of this protein is around 105-135 kDa verified by SEC-MALS.

[Report](#)



Immobilized Biotinylated Cynomolgus Cadherin-17 Protein, His,Avitag (Cat. No. CA7-C82E8) at 1 µg/mL (100 µL/well) on streptavidin (Cat. No. STN-N5116) precoated (0.5 µg/well) plate can bind Anti-CDH17 Antibody with a linear range of 2-31 ng/mL (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 if you have any question on this product.