



### Synonym

CDH6, CAD6, KCAD, K-cadherin, Cadherin-6

### Source

Biotinylated Human Cadherin-6 Protein, His,Avitag(CA6-H82E3) is expressed from human 293 cells (HEK293). It contains AA Thr 19 - Ala 615 (Accession # [P55285-1](#)).

Predicted N-terminus: Thr 19

### Molecular Characterization

Cadherin-6(Thr 19 - Ala 615)  
P55285-1    Poly-his    Avi

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

The protein has a calculated MW of 70.0 kDa. The protein migrates as 53 kDa, 65 kDa and 80-95 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

>85% as determined by SDS-PAGE.

>90% as determined by SEC-MALS.

### Formulation

Lyophilized from 0.22 µm filtered solution in PBS, pH7.4 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

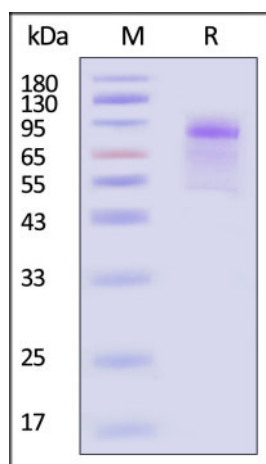
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*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.

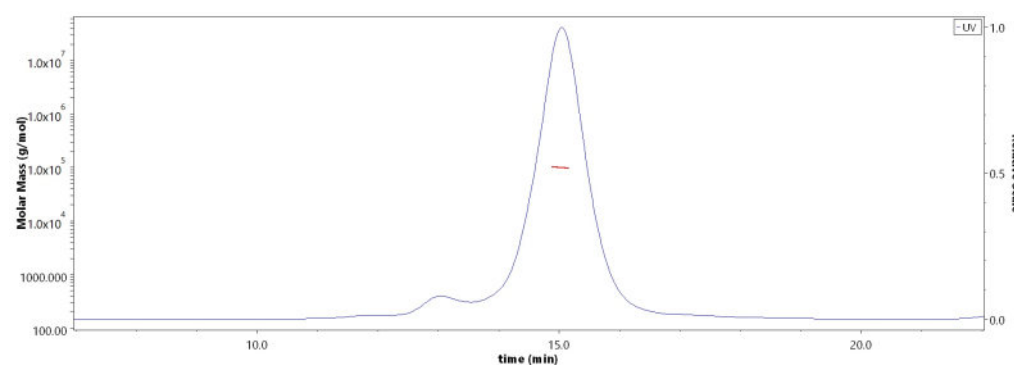
### SDS-PAGE



Biotinylated Human Cadherin-6 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 85% (With [Star Ribbon Pre-stained Protein Marker](#)).

### Bioactivity-ELISA

### SEC-MALS

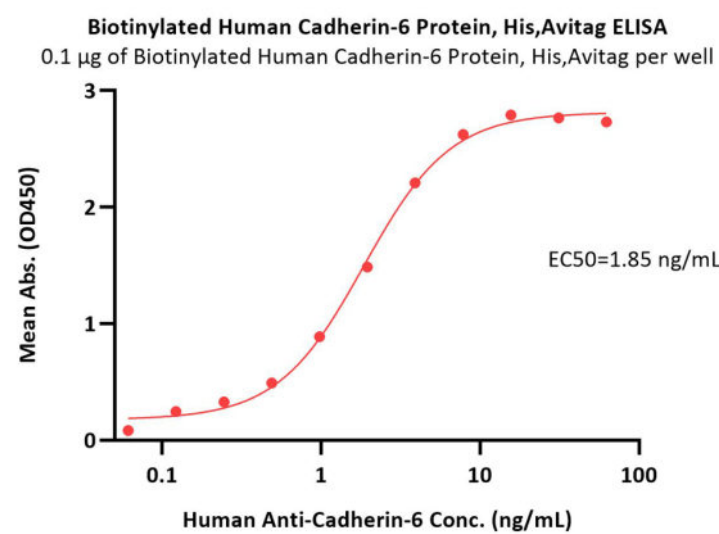
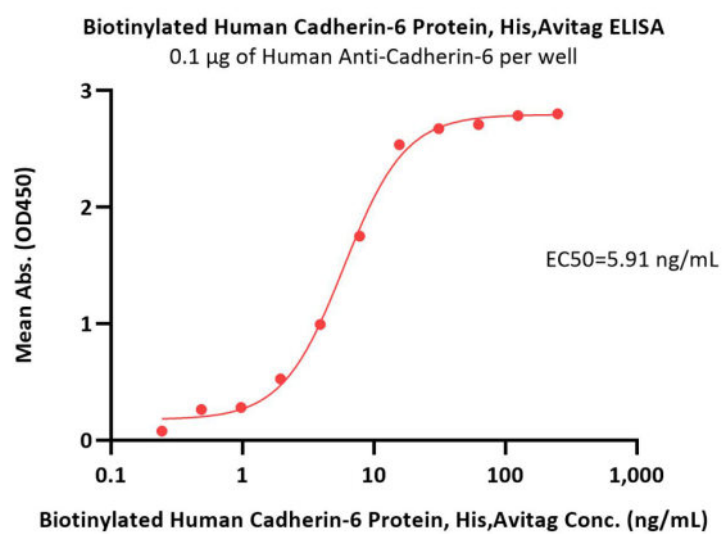


The purity of Biotinylated Human Cadherin-6 Protein, His,Avitag (Cat. No. CA6-H82E3) is more than 90% and the molecular weight of this protein is around 75-100 kDa verified by SEC-MALS.

### Report

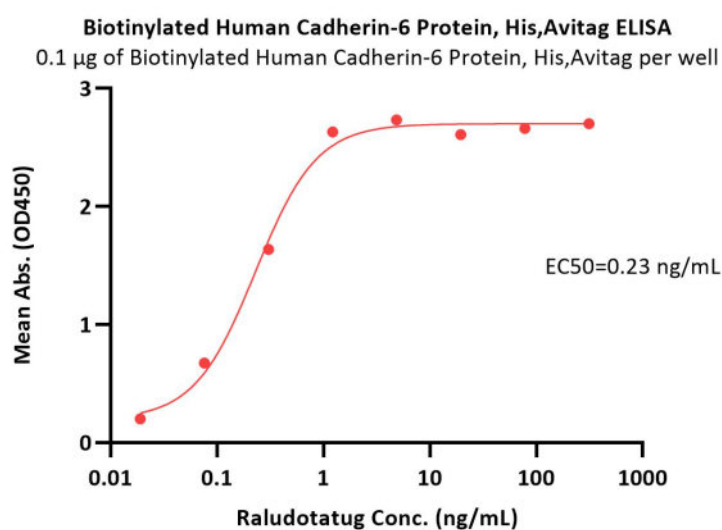
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and more!





Immobilized Human Anti-Cadherin-6 at 1 µg/mL (100 µL/well) can bind Biotinylated Human Cadherin-6 Protein, His,Avitag (Cat. No. CA6-H82E3) with a linear range of 0.2-16 ng/mL (QC tested).

Immobilized Biotinylated Human Cadherin-6 Protein, His,Avitag (Cat. No. CA6-H82E3) at 1 µg/mL (100 µL/well) on streptavidin (Cat. No. STN-N5116) precoated (0.5 µg/well) plate can bind Human Anti-Cadherin-6 with a linear range of 0.1-4 ng/mL (Routinely tested).



Immobilized Biotinylated Human Cadherin-6 Protein, His,Avitag (Cat. No. CA6-H82E3) at 1 µg/mL (100 µL/well) on streptavidin (Cat. No. STN-N5116) precoated (0.5 µg/well) plate can bind Raludotatug with a linear range of 0.02-1 ng/mL (Routinely tested).

**Background**

Cadherin-6 (CDH6) is also known as Kidney cadherin (K-cadherin or KCAD), is a type II classical cadherin from the cadherin superfamily. Cadherins are calcium-dependent cell adhesion proteins. They preferentially interact with themselves in a homophilic manner in connecting cells; cadherins may thus contribute to the sorting of heterogeneous cell types. CDH6 / KCAD contains five cadherin domains. CDH6 is highly expressed in brain, cerebellum, and kidney. Lung, pancreas, and gastric mucosa show a weak expression and also expressed in certain liver and kidney carcinomas.

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