

**Synonym**

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

**Source**

Mouse Cadherin-6, His Tag(CA6-M52H8) is expressed from human 293 cells (HEK293). It contains AA Thr 19 - Ala 615 (Accession # [P97326-1](#) ).

Predicted N-terminus: Thr 19

**Molecular Characterization**

Cadherin-6(Thr 19 - Ala 615) P97326-1	Poly-his
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This protein carries a polyhistidine tag at the C-terminus. The Human Cadherin-6 will be further processed into mature form (Ser 54 - Ala 615).

The protein has a calculated MW of 68.3 kDa. The protein migrates as 80-100 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

**Endotoxin**

Less than 1.0 EU per µg by the LAL method.

**Purity**

>95% as determined by SDS-PAGE.

**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**

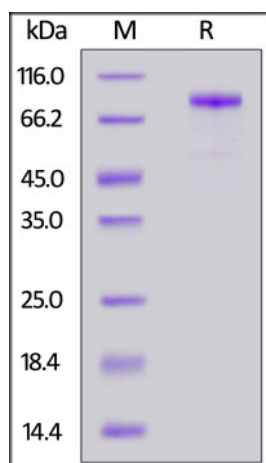
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*Please avoid repeated freeze-thaw cycles.*

This product is stable after storage at:

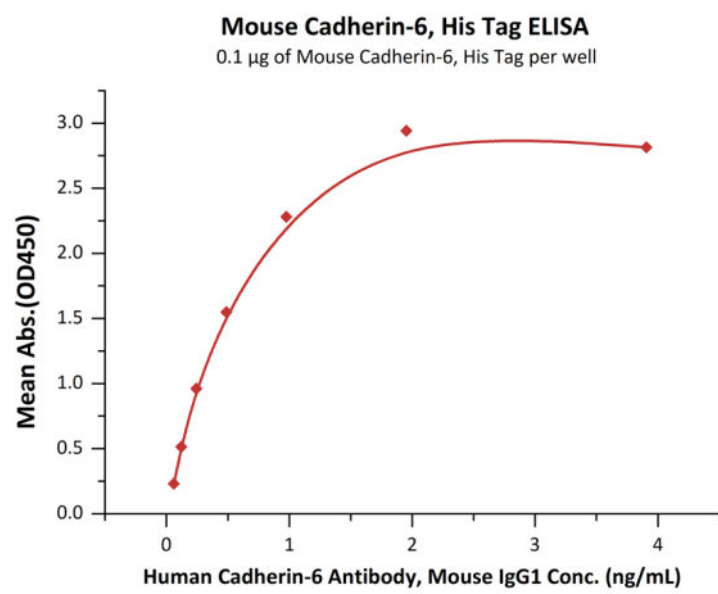
- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

**SDS-PAGE**



Mouse Cadherin-6, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.

**Bioactivity-ELISA**



Immobilized Mouse Cadherin-6, His Tag (Cat. No. CA6-M52H8) at 1 µg/mL (100 µL/well) can bind Human Cadherin-6 Antibody, Mouse IgG1 with a linear range of 0.1-1 ng/mL (QC 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.

### Clinical and Translational Updates

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