

**Synonym**

Cadherin-10, CDH10, T2-cadherin

**Source**

Human Cadherin-10, His Tag (CA0-H52H5) is expressed from human 293 cells (HEK293). It contains AA Gly 55 - Ala 613 (Accession # [Q9Y6N8-1](#)).

**Molecular Characterization**

CDH10(Gly 55 - Ala 613) Q9Y6N8-1	Poly-his
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This protein carries a polyhistidine tag at the C-terminus.

The protein has a calculated MW of 64.2 kDa. The protein migrates as 70-80 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

**Endotoxin**

Less than 1.0 EU per  $\mu\text{g}$  by the LAL method.

**Purity**

>90% as determined by SDS-PAGE.

**Formulation**

Lyophilized from 0.22  $\mu\text{m}$  filtered solution in PBS, pH7.4. Normally trehalose is added as protectant before lyophilization.

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.*

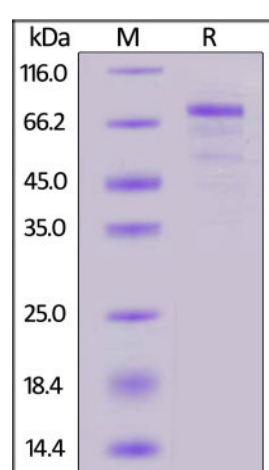
**Storage**

For long term storage, the product should be stored at lyophilized state at  $-20^{\circ}\text{C}$  or lower.

*Please avoid repeated freeze-thaw cycles.*

This product is stable after storage at:

- $-20^{\circ}\text{C}$  to  $-70^{\circ}\text{C}$  for 12 months in lyophilized state;
- $-70^{\circ}\text{C}$  for 3 months under sterile conditions after reconstitution.

**SDS-PAGE**

Human Cadherin-10, 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 90%.

**Background**

Cadherins are a large family of cell-cell adhesion molecules involved in inter-cellular adhesion in a wide variety of cell types. In the nervous system, cadherins are known to be crucial to all stages of development, including the early separation of the neural tube from the ectoderm, the segregation of neurones and axons, and the formation of synapses. These molecules mediate calcium ion-dependent, homotypic primers designed using two highly conserved amino acid sequences in the cytoplasmic domain. One of the cadherins identified was cadherin-10. Cadherin-10 was first partially cloned from human brain, but its mRNA has also been shown to be present in mouse thymus (designated T2-cadherin), mouse testis, and in the developing brain and eye of mouse, rat, and chick.

**Clinical and Translational Updates**

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