

## CDH10 Protein, Human, Recombinant (His)

### General Information

Protein Construction:	Gly55-Ala613
Species:	Human
Expression Host:	HEK293 Cells
Accession:	Q9Y6N8
Molecular Weight:	63.81 kDa (predicted); 72-82 kDa (reducing condition, due to glycosylation)

### QC Testing

Biological Activity:	Activity testing is in progress. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 95% as determined by Bis-Tris PAGE
Endotoxin:	< 1.0 EU/ $\mu$ g of the protein as determined by the LAL method.
Formulation:	Lyophilized from 0.22 $\mu$ m filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.

### Preparation and Storage

#### Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100  $\mu$ g/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

#### Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

#### Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

### Protein Background

Cadherin 10 (CDH10) is a type II cadherin predominantly expressed in the brain, putatively involved in axon outgrowth and guidance. Also known to mediate calcium-dependent cell-cell adhesion and maintain the correct balance between excitation and inhibition in neuronal dendrites., CDH 10 has a large N-terminal extracellular domain (containing 5 cadherin motif subdomains which appear to determine the specificity of the protein's homophilic cell adhesion activity), a single membrane-spanning domain, and a small, conserved C-terminal cytoplasmic domain. CDH10 spans 157.7kb on chromosome 5 and produces two transcript variants. Mutations and loss of expression of this protein have been observed in multiple cancer types, including gastric, colorectal,

pancreatic, endometrial and lung. Genetic variations nearby the CDH10 genetic region have been associated with autism.

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Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481