

# Human CDH10/Cadherin-10 Protein

Cat. No. CDH-HM110

## Description

<b>Source</b>	Recombinant Human CDH10/Cadherin-10 Protein is expressed from HEK293 with His tag at the C-terminus. It contains Gly55-Ala613.
<b>Accession</b>	Q9Y6N8
<b>Molecular Weight</b>	The protein has a predicted MW of 63.81 kDa. Due to glycosylation, the protein migrates to 72-82 kDa based on Bis-Tris PAGE result.
<b>Endotoxin</b>	Less than 1EU per $\mu\text{g}$ by the LAL method.
<b>Purity</b>	> 95% as determined by Bis-Tris PAGE

## Formulation and Storage

<b>Formulation</b>	Lyophilized from 0.22 $\mu\text{m}$ filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 $\mu\text{g}/\text{ml}$ is recommended. Dissolve the lyophilized protein in distilled water.
<b>Storage</b>	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3-6 months after reconstitution. 2-8°C for 2-7 days after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

## 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. 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.

## Assay Data

### Bis-Tris PAGE



Human CDH10 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.