

# Human CDH9/Cadherin 9 Protein, Ultra Low Endotoxin

Cat. No. CDH-HM109-UL

## Description

<b>Source</b>	Recombinant Human CDH9/Cadherin 9 Protein is expressed from HEK293 with His tag at the C-terminus. It contains Gly54-Ala615.
<b>Accession</b>	Q9ULB4
<b>Molecular Weight</b>	The protein has a predicted MW of 64.11 kDa. Due to glycosylation, the protein migrates to 70-80 kDa based on Bis-Tris PAGE result.
<b>Endotoxin</b>	Less than 0.01 EU per µg by the LAL method.
<b>Purity</b>	> 80% as determined by Bis-Tris PAGE

## Formulation and Storage

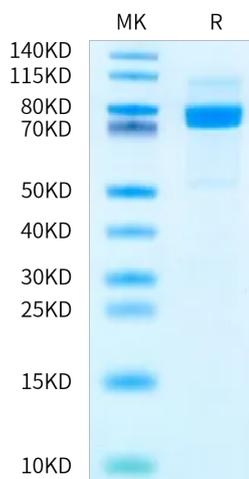
<b>Formulation</b>	Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
<b>Storage</b>	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3 months after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

## Background

cadherin-9, a classic type II cadherin expressed exclusively by DG and CA3 neurons in the hippocampus (Bekirov et al., 2002), is required specifically for formation of DG but not CA1 or CA3 synapses in culture. In vivo, loss of cadherin-9 from either DG or CA3 neurons severely disrupts mossy fiber bouton and TE spine formation through trans-synaptic interactions.

## Assay Data

### Bis-Tris PAGE



Human CDH9 on Bis-Tris PAGE under reduced condition. The purity is greater than 80%.