

CDH11 Protein, Human, Recombinant (aa 54-617, His)

General Information

Synonyms:	CDH11;Osteoblast cadherin;OSF-4;CAD11OSF-4;OB;Cadherin-11;OB-cadherin;CDHOB
Protein Construction:	Gly54-Thr617
Species:	Human
Expression Host:	HEK293 Cells
Accession:	AAA35622
Molecular Weight:	66.32 kDa (predicted). Due to glycosylation, the protein migrates to 67-70 kDa based on Tris-Bis PAGE result.

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 90% as determined by Tris-Bis PAGE
Endotoxin:	< 1.0 EU/ μ g of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 μ m filter, containing PBS (pH 7.4). Typically, 8% trehalose is incorporated as a protective agent before lyophilization.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 μ 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

CDH11 belongs to a group of transmembrane proteins that are principally located in adherens junctions. CDH11 mediates homophilic cell-to-cell adhesion, which may promote the development of cirrhosis. CDH11 expression was positively correlated with liver fibrosis in patients with cirrhosis, and could therefore be a prognostic factor in patients with liver fibrosis.

Reference

Ruan W, et al. CDH11 promotes liver fibrosis via activation of hepatic stellate cells. *Biochem Biophys Res Commun.* 2019 Jan 8;508(2):543-549. doi: 10.1016/j.bbrc.2018.11.153. Epub 2018 Nov 30. PMID: 30509494.

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