

Cadherin 17/CDH17 Domain 3 & 4 Protein, Human, Recombinant (mFc)

General Information

Synonyms:	BILL-cadherin; Cadherin-17; LI-cadherin; CDH16; cadherin-16; Cdh17; P130; HPT-1
Protein Construction:	Val245-Phe449
Species:	Human
Expression Host:	HEK293 Cells
Accession:	Q12864
Molecular Weight:	49.16 kDa (predicted). Due to glycosylation, the protein migrates to 55-70 kDa based on Tris-Bis PAGE result.

QC Testing

Biological Activity:	Immobilized Human CDH17 Domain 3&4, His Tag at 1 µg/mL (100 µL/well) on the plate. Dose response curve for Biotinylated Anti-CDH17 Domain 3 Antibody, hFc-Avi Tag with the EC50 of 22.3 ng/mL determined by ELISA.(QC Test)
Purity:	> 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC
Endotoxin:	< 1.0 EU/µg of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 µm 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 µg/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

Liver-intestine cadherin (CDH17) has been known to function as a tumor stimulator and diagnostic marker for almost two decades. In vivo studies showed CDH17 knockout resulted in apoptotic PC tumor death through activating caspase-3 activity. Taken together, CDH17 functions as an oncogenic molecule critical to PC growth by regulating tumor apoptosis signaling pathways and CDH17 could be targeted to develop an anti-PC therapeutic

approach.

Reference

Liu X, et al. Disruption of oncogenic liver-intestine cadherin (CDH17) drives apoptotic pancreatic cancer death. *Cancer Lett.* 2019 Jul 10;454:204-214. doi: 10.1016/j.canlet.2019.04.022. Epub 2019 Apr 17. PMID: 31004701.

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