

Cadherin 17/CDH17 Protein, Human, Recombinant (Active, His)

General Information

Synonyms:	Intestinal Peptide-Associated Transporter HPT-1; Liver-Intestine Cadherin; LI-Cadherin; Cadherin-17; CDH17
Protein Construction:	Gln23-Met787
Species:	Human
Expression Host:	HEK293 Cells
Accession:	AAI13465.1
Molecular Weight:	110-130 KDa (reducing condition)
AA Sequence:	Gln23-Met787

QC Testing

Biological Activity:	<p>1. Immobilized CDH17 Protein, Human, Recombinant (His) at 2 µg/mL (100 µL/well) can bind Anti-Human Cadherin-17 mab (Human IgG1). The ED50 of Anti-Human Cadherin-17 mab (Human IgG1) is 7.34 ng/mL. (Regularly tested).</p> <p>2. Loaded Anti-Human Cadherin-17 mab (Human IgG1) on Pro-A Biosensor, can bind CDH17 Protein, Human, Recombinant (His) with an affinity constant of 0.827 µM as determined in BLI assay. (Regularly tested)</p>
Purity:	Greater than 95% as determined by reducing SDS-PAGE. Greater than 95% as determined by SEC-HPLC.
Endotoxin:	< 0.1 ng/µg (1 EU/µg) as determined by LAL test.
Formulation:	Lyophilized from a solution filtered through a 0.22 µm filter, containing 20 mM PB, 150 mM NaCl, pH 7.4.

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:

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

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Cadherin-17 is a single-pass type I membrane protein that belongs to the cadherin superfamily. Cadherin-17 consists of one extracellular region containing seven cadherin domains and one transmembrane region but it lacks the conserved cytoplasmic domain. Cadherin-17 is expressed in the gastrointestinal tract and pancreatic duct. Cadherins are calcium dependent cell adhesion proteins and preferentially interact with each other in a homophilic manner in connecting cells. Cadherin-17 may have a role in the morphological organization of liver and intestine and involved in intestinal peptide transport.

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