

Cadherin-17 Protein, Rat (HEK293, His)

Cat. No.:	HY-P76755
Synonyms:	Cadherin-17; CDH17; Intestinal Peptide-Associated Transporter HPT-1
Species:	Rat
Source:	HEK293
Accession:	P55281 (Q22-M786)
Gene ID:	117048
Molecular Weight:	Approximately 100-130 kDa due to the glycosylation.

PROPERTIES

AA Sequence

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Q E G K F S G P L K   P M T F S I F E G Q   E P S Q I I F Q F K   A N P P A V T F E L
T G E T D G I F K I   E K D G L L Y H T R   V L D R E T R A V H   H L Q L A A L D S Q
G A I V D G P V P I   I I E V K D I N D N   R P T F L Q T K Y E   G S V R Q N S R P G
K P F M Y V N A T D   L D D P A T P N G Q   L F Y Q I V I Q L P   K I N N V M Y F Q I
D N K T G A I S L T   P E G S Q V L D P I   K N P Y Y N L V V S   V K D M G G Q N E N
S F S D T T S V D I   T V R E N I W K A P   E P V E I R E N L T   D P H P I K I T Q V
Q W N D P G A H Y S   L I N K E K L P Q F   P F S I D Q E G N I   Y V T Q P L D R E E
K D S H V F F A T A   K D E N G K P L A Y   P L E I R V K V I D   I N D N P P T C L S
Q V T V F E V Q E N   E V L G S S I G I F   A A H D M D E A N N   I N S I L K Y R L V
D Q T P K V P S D E   L F L I D E Y G G K   V Q L G K R S L K K   Q D S P Q Y N L T V
E V S D I D F K T L   C S L Q V N V I D I   N D Q I P I F E R S   D Y G S K T L S E D
T A I G S T I L I I   Q A T D D D E P F T   G S S K I L Y K I V   Q G D T E G R L E V
V T D P M T N T G Y   V K I R K P L D F E   T E P V T S I V F K   A E N P E P L V N G
I E Y N A S S F A S   F E L T V T D V N E   V P V F P Q Q I F Q   A N V S E D T A I G
T K V G T V T A R D   P E G L T V S Y S L   K D N K R G W L K I   D S V T G D I F S T
A P L D R E T E S V   Y R V Q V V A T E V   G G S S L S S T A Y   F H L V L M D V N D
N P P R L A K D Y T   G L F F C H P L S A   P G S L I F E A T D   D D Q Q S V R R P K
F T F A L G R E S L   Q S D W E V S K I N   G T H A R L S T K H   T R F E E Q V Y D I
P I L I N D G G Q P   P M E G I V S L S V   T F C Q C V D G S C   F R P A G N Q V G I
P T V G M

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Biological Activity

Measured by its binding ability in a functional ELISA. Immobilized Rat Cadherin-17, at 2µg/mL (100µL/well) can bind Anti-Cadherin-17 antibody. The ED₅₀ for this effect is 4.017 ng/mL.

Appearance

Lyophilized powder.

Formulation

Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.

Endotoxin Level

<1 EU/µg, determined by LAL method.

Reconstitution

It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH₂O. For long term storage it is

	recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background

Cadherin-17 is a calcium-dependent cell adhesion protein, belonging to the cadherin family, which is integral for mediating cell-cell adhesion. Exhibiting a preference for homophilic interactions, Cadherin-17 plays a potential role in sorting heterogeneous cell types, contributing to the overall organization of tissues. Specifically, LI-cadherin, may play a role in the morphological organization of the liver and intestine, underlining its significance in maintaining tissue integrity and structure.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA