



Recombinant Protein Technical Manual

Recombinant Rat Cadherin7/CDH17 Protein (His Tag)

RPES4819

Product Data:

Product SKU: RPES4819

Size: 50µg

Species: Rat

Expression host: HEK293 Cells

Uniprot: P55281

Protein Information:

Molecular Mass: 86.4 kDa

AP Molecular Mass: 118 kDa

Tag: C-His

Bio-activity:

Purity: > 81 % as determined by SDS-PAGE

Endotoxin: < 1.0 EU per µg of the protein as determined by the LAL method

Storage: Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

Shipping: This product is provided as lyophilized powder which is shipped with ice packs.

Formulation: Lyophilized from sterile PBS, pH 7.4

Reconstitution: Please refer to the printed manual for detailed information.

Application:

Synonyms: CDH17

Immunogen Information:

Sequence: Met1-Met786

Background:

Cadherin7 or LI-cadherin is a member of the cadherin superfamily, genes encoding calcium-dependent, membrane-associated glycoproteins. Cadherin7/LI-cadherin is a cadherin-like protein consisting of an extracellular region, 7 cadherin domains, and a transmembrane region but lacking the conserved cytoplasmic domain. The protein is a component of the gastrointestinal tract and pancreatic ducts, acting as an intestinal proton-dependent peptide transporter in the first step in oral absorption of many medically important peptide-based drugs. The protein may also play a role in the morphological organization of liver and intestine. Alternative splicing of the encoding gene results in multiple transcript variants. Cadherin7/LI-cadherin preferentially interact with themselves in a homophilic manner in connecting cells. Cadherin7 may thus contribute to the sorting of heterogeneous cell types and have a role in the morphological organization of liver and intestine. It's also involved in intestinal peptide transport. Experiments have reported the association between Cadherin7/LI-cadherin and gastric cancer. Cadherin7/LI-cadherin expression was detected in 63/94 of gastric adenocarcinomas in addition to intestinal metaplasia. The expression of Cadherin7 tended to be associated with intestinal type carcinoma, and carcinomas with Cadherin7 expression was significantly more frequent in advanced stage cases than in early stage. Cadherin7 is also a useful immunohistochemical marker for diagnosis of adenocarcinomas of the digestive system.