

Human Cadherin-17 / CDH17 (567-777) Protein, His Tag

Catalog # CA7-H52H7



BIOSYSTEMS
Acro

Synonym

Cadherin-17, CDH17, HPT-1, LI-cadherin

Source

Human Cadherin-17 (567-777) Protein, His Tag (CA7-H52H7) is expressed from human 293 cells (HEK293). It contains AA Ser 567 - Gly 777 (Accession # [Q12864-1](#)).

Predicted N-terminus: Ser 567

Molecular Characterization

Cadherin-17(Ser 567 - Gly 777) Q12864-1	Poly-his
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This protein carries a polyhistidine tag at the C-terminus.

The protein has a calculated MW of 24.9 kDa. The protein migrates as 30-35 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE) due to glycosylation.

Endotoxin

Less than 1.0 EU per µg by the LAL method / rFC method.

Purity

>95% as determined by SDS-PAGE.

Formulation

Lyophilized from 0.22 µm filtered solution in 20 mM Tris, 150 mM NaCl, pH7.5 with trehalose as protectant.

Contact us for customized product form or formulation.

Reconstitution

Please see Certificate of Analysis for specific instructions.

For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.

Storage

For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

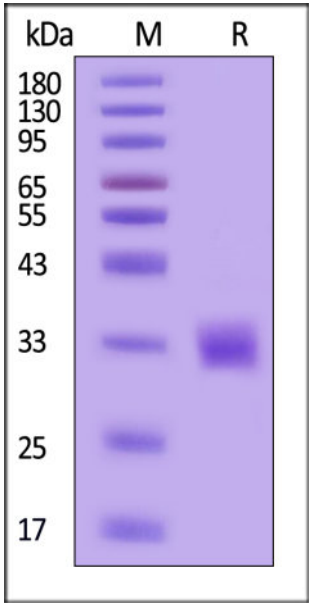
This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

ACRO Quality Management System

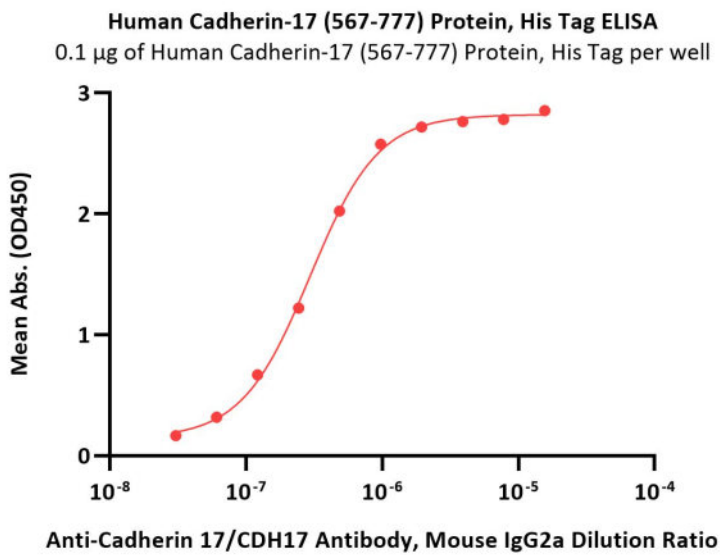
- [QMS\(ISO, GMP\)](#).
- [Quality Advantages](#)
- [Quality Control Process](#)

SDS-PAGE



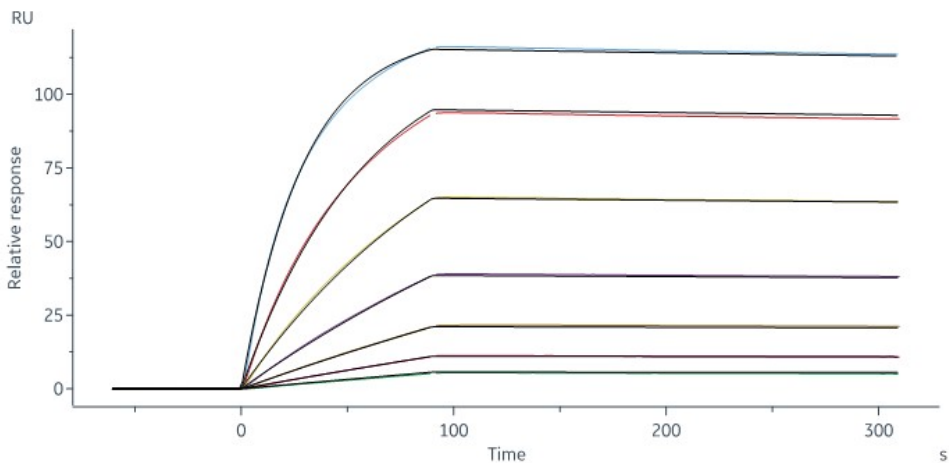
Human Cadherin-17 (567-777) Protein, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95% (With [Star Ribbon Pre-stained Protein Marker](#)).

Bioactivity-ELISA



Immobilized Human Cadherin-17 (567-777) Protein, His Tag (Cat. No. CA7-H52H7) at 1 µg/mL (100 µL/well) can bind various dilution ratio of Anti-Cadherin 17/CDH17 Antibody, Mouse IgG2a (QC tested).

Bioactivity-SPR



Anti-Cadherin-17 Antibody captured on CM5 chip via anti-mouse antibodies surface can bind Human Cadherin-17 (567-777) Protein, His Tag (Cat. No. CA7-H52H7) with an affinity constant of 1.35 nM as determined in a SPR assay (Biacore 8K) (Routinely tested).

Background

Cadherin-17, also known as liver-intestine (LI) Cadherin, belongs to the cadherin family of calcium-dependent cell adhesion molecules. 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.

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