FITC-Labeled Human Cadherin-17 / CDH17 (23-787) Protein, His Tag

Catalog # CA7-HF2H3

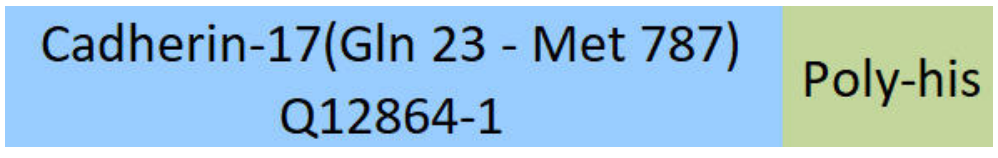
Synonym

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

Source

FITC-Labeled Human Cadherin-17 (23-787) Protein, His Tag (CA7-HF2H3) is expressed from human 293 cells (HEK293). It contains AA Gln 23 - Met 787 (Accession # Q12864-1). It is the FITC labeled form of Human Cadherin-17 Protein, His Tag (Active) (Cat. No. CA7-H52H4).
Predicted N-terminus: Gln 23

Molecular Characterization



Other Tags and Version Biotin & Other Labeled Version

This protein carries a polyhistidine tag at the C-terminus.
The protein has a calculated MW of 86.9 kDa. The protein migrates as 95-110 kDa when calibrated against Star Ribbon Pre-stained Protein Marker under reducing (R) condition (SDS-PAGE) due to glycosylation.

Conjugate

FITC
Excitation source: 488 nm spectral line, argon-ion laser
Excitation Wavelength: 488 nm
Emission Wavelength: 535 nm

Labeling

The primary amines in the side chains of lysine residues and the N-terminus of the protein are conjugated with FITC using standard chemical labeling method. The residual FITC is removed by molecular sieve treatment during purification process.

Purity

>90% as determined by SDS-PAGE.

Formulation

Lyophilized from 0.22 μm filtered solution in PBS, pH7.4 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

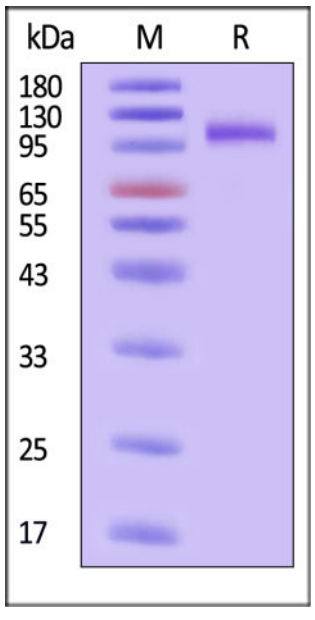
For long term storage, the product should be stored at lyophilized state at -20°C or lower.
Please protect from light and avoid repeated freeze-thaw cycles.
This product is stable after storage at:

- -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

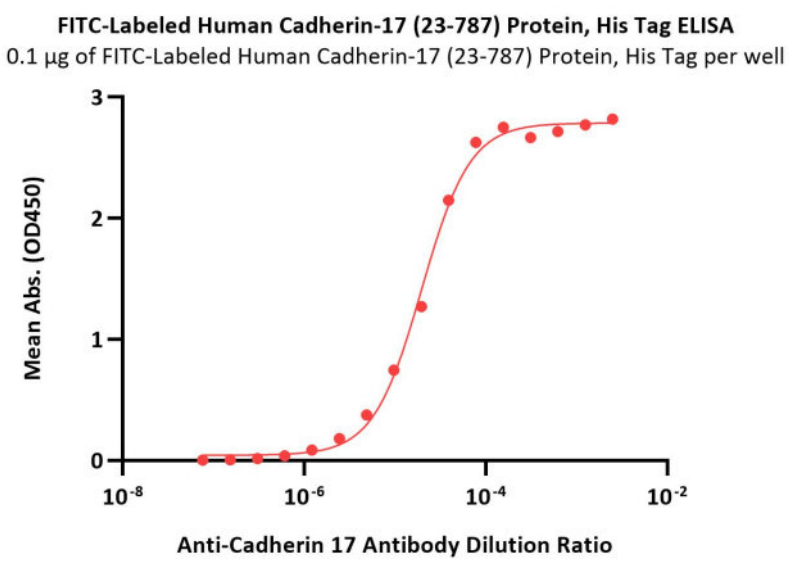
- QMS(ISO, GMP)
- Quality Advantages
- Quality Control Process

SDS-PAGE



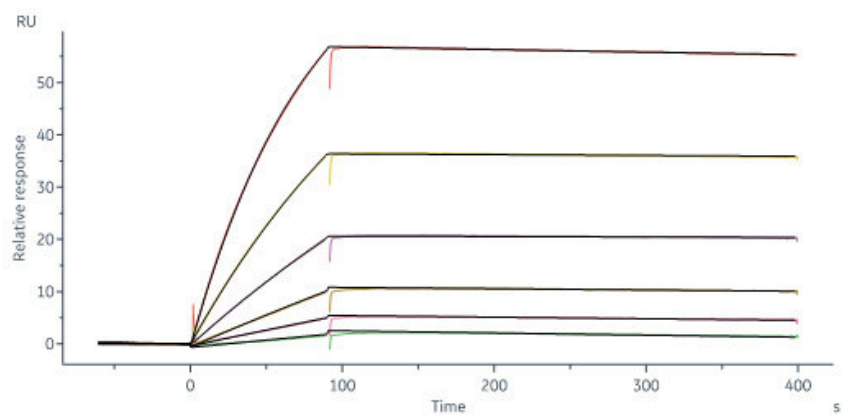
FITC-Labeled Human Cadherin-17 (23-787) Protein, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90% (With Star Ribbon Pre-stained Protein Marker).

Bioactivity-ELISA



Immobilized FITC-Labeled Human Cadherin-17 (23-787) Protein, His Tag (Cat. No. CA7-HF2H3) at 1 μg/mL (100 μL/well) can bind various dilution ratio of Anti-Cadherin 17 Antibody (QC tested).

Bioactivity-SPR



Anti-Cadherin 17 Antibody captured on CM5 chip via anti-mouse antibodies surface can bind FITC-Labeled Human Cadherin-17 (23-787) Protein, His Tag (Cat. No. CA7-HF2H3) with an affinity constant of 3.11 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.