

Synonym

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

Source

Cynomolgus Cadherin-17, His Tag(CA7-C52H4) is expressed from human 293 cells (HEK293). It contains AA Lys 30 - Thr 792 (Accession # [A0A2K5X8I8-1](#)).
Predicted N-terminus: Lys 30

Molecular Characterization

Cadherin-17(Lys 30 - Thr 792) A0A2K5X8I8-1	Poly-his
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This protein carries a polyhistidine tag at the C-terminus
The protein has a calculated MW of 86.6 kDa. The protein migrates as 100-120 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

Endotoxin

Less than 1.0 EU per µg by the LAL method.

Purity

>85% as determined by SDS-PAGE.

Formulation

Lyophilized from 0.22 µm filtered solution in 20 mM Tris, 150 mM NaCl, 0.5 M Arginine, pH8.0 with trehalose as protectant.
Contact us for customized product form or formulation.

Reconstitution

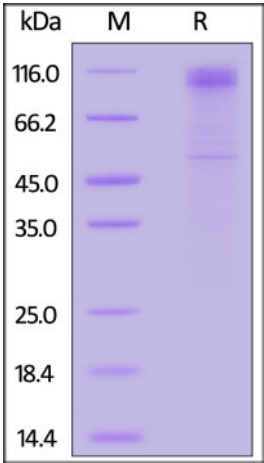
Please see Certificate of Analysis for specific instructions.
For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.

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:

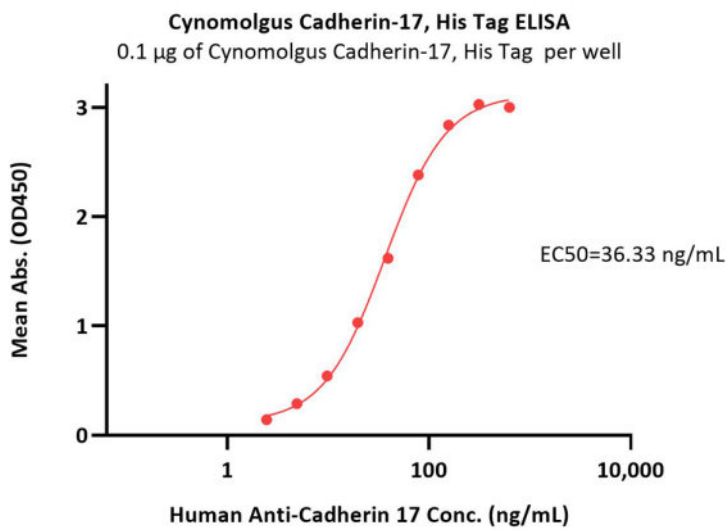
- 20°C to -70°C for 12 months in lyophilized state;
- 70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE



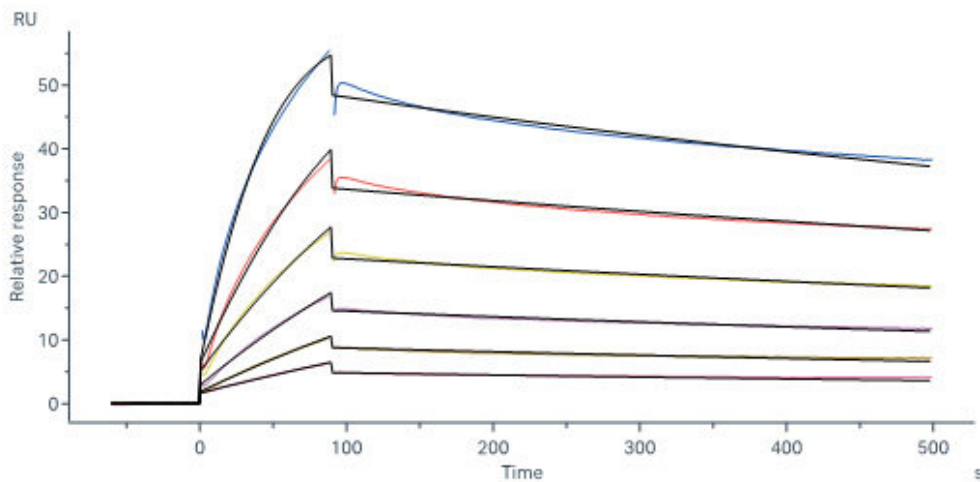
Cynomolgus Cadherin-17, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 85%.

Bioactivity-ELISA



Immobilized Cynomolgus Cadherin-17, His Tag (Cat. No. CA7-C52H4) at 1 µg/mL (100 µL/well) can bind Human Anti-Cadherin 17 with a linear range of 2-39 ng/mL (QC tested).

Bioactivity-SPR



Anti-CDH17-antibody captured on Protein A Chip can bind Cynomolgus Cadherin-17, His Tag (Cat. No. CA7-C52H4) with an affinity constant of 41.8 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.

Clinical and Translational Updates

Please contact us via TechSupport@acrobiosystems.com if you have any question on this product.