

Biotinylated Human Cadherin-16 Protein, His,Avitag™

Catalog # CA6-H82E4



Synonyms

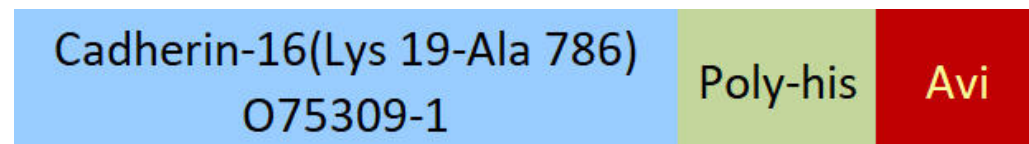
Cadherin-16

Source

Biotinylated Human Cadherin-16 Protein, His,Avitag (CA6-H82E4) is expressed from human 293 cells (HEK293). It contains AA Lys 19-Ala 786 (Accession # [O75309-1](#)).

Predicted N-terminus: Lys 19

Molecular Characterization



This protein carries a polyhistidine tag at the C-terminus, followed by an Avi tag (Avitag™).

The protein has a calculated MW of 86.9 kDa. The protein migrates as 95-130 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE) due to glycosylation.

Labeling

Biotinylation of this product is performed using Avitag™ technology. Briefly, the single lysine residue in the Avitag is enzymatically labeled with biotin.

Protein Ratio

0.7-1.0 as determined by the SABA assay / HABA assay / binding ELISA.

Endotoxin

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

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.

Shipping and Storage

This product is shipped at ambient temperature.

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

Please avoid repeated freeze-thaw cycles.

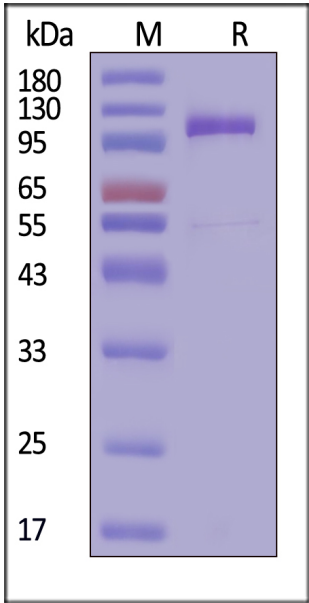
This product is stable after storage at:

- -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



Biotinylated Human Cadherin-16 Protein, His,Avitag 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](#)).

Background

CDH16, fully named Cadherin-16 (also known as KSP-cadherin), is a member of the calcium-dependent cadherin superfamily of cell adhesion proteins. It is specifically expressed in kidney proximal tubule epithelial cells, functioning as a key mediator of homotypic cell recognition and maintaining renal tubular structural integrity. Structurally, CDH16 consists of an extracellular domain with 6 cadherin repeats, a transmembrane region, and a truncated cytoplasmic domain, lacking the typical HAV adhesion recognition sequence of classical cadherins.



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