Recombinant Human E-Cadherin/CDH1/CD324 Protein

Catalog No.: RP01421

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Sequence Information

Species	Gene ID
Human	999
Swiss Prot	**Tags**
P12830	C-His

Synonyms

Arc-1,CD324,CDHE,ECAD,LCAM, UVO,CDH1,E-Cadherin, Arc-1, CD324, CDHE, ECAD, LCAM, UVO, cadherin-1,E Cadherin

Product Information

Source	Purification
HEK293 cells	≥ 95 % as determined by SDS-PAGE.
Calculated MW	**Observed MW**
61.36 kDa	70-85 kDa

Endotoxin

< 0.1 EU/μg of the protein by LAL method.

Formulation

Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.

Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Background

Cadherins are calcium-dependent cell adhesion proteins which preferentially interact with themselves in a homophilic manner in connecting cells, and thus may contribute to the sorting of heterogeneous cell type. E-cadherin (E-Cad), also known as CDH1 and CD324, is a calcium-dependent cell adhesion molecule the intact function of which is crucial for the establishment and maintenance of epithelial tissue polarity and structural integrity. Mutations in CDH1 occur in diffuse type gastric cancer, lobular breast cancer, and endometrial cancer. In human cancers, partial or complete loss of E-cadherin expression correlates with malignancy. During apoptosis or with calcium influx, E-Cad is cleaved by the metalloproteinase to produce fragments of about 38 kDa (E-CAD/CTF1), 33 kDa (E-CAD/CTF2) and 29 kDa (E-CAD /CTF3), respectively. E-Cad has been identified as a potent invasive suppressor, as downregulation of E-cadherin expression is involved in dysfunction of the cell-cell adhesion system, and often correlates with strong invasive potential and poor prognosis of human carcinomas.

Basic Information

Description

Recombinant Human E-Cadherin/CDH1/CD324 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Asp155-Ala709) of human E-Cadherin/Cadherin-1 (Accession #NP_004351.1) fused with a 6×His tag at the C-terminus.

Activity

1.Measured by its binding ability in a functional ELISA. Immobilized Human CDH1 at 1 μg/mL (100 μL/well) can bind Human CTNNB1 (Catalog: RP01241) with a linear range of 62.50-218.35 ng/mL. 2.Measured by the ability of the immobilized protein to support the adhesion of MCF-7 human breast adenocarcinoma cells. When cells are added to E-Cad coated plates (5 μg /mL, 100 μL/well), > 28.35% will adhere specifically after 90 minutes at 37 ℃.

Shipping

Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at -20℃

Operational Notes

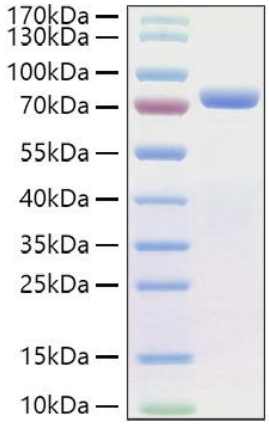
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

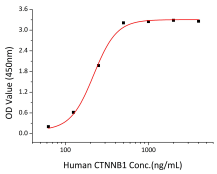
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Validation Data



Recombinant Human E-Cadherin/CDH1/CD324 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



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