

For Research Use Only

Recombinant Human E-cadherin protein (His Tag)



Catalog Number: Eg1112

Basic Information

ED50:
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Species:
Human

Purity:
>90 %, SDS-PAGE

GeneID:
999

Accession:
P12830-1

Technical Specifications

Purity:
>90 %, SDS-PAGE

Endotoxin Level:
<1.0 EU/ μ g protein, LAL method

Source:
HEK293-derived Human E-cadherin protein Asp155-Ala709 (Accession# P12830-1) with a His tag at the C-terminus.

Predicted Molecular Mass:
64.6 kDa

SDS-PAGE:
65-80 kDa, reducing (R) condition

Formulation:
Lyophilized from sterile PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

Biological Activity

Not tested

Storage and Shipping

Storage:
It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

- Until expiry date, -20°C to -80°C as lyophilized proteins.
- 3 months, -20°C to -80°C under sterile conditions after reconstitution.

Shipping:
The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.

Reconstitution

Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.

Background

E-cadherin (epithelial cadherin), also known as CDH1 (cadherin 1) or CAM 120/80, is a classical member of the cadherin superfamily which also include N-, P-, R-, and B-cadherins. E-cadherin is expressed on the cell surface in most epithelial tissues. The extracellular region of E-cadherin establishes calcium-dependent homophilic trans binding, providing specific interaction with adjacent cells, while the cytoplasmic domain is connected to the actin cytoskeleton through the interaction with p120-, α -, β -, and γ -catenin (plakoglobin). E-cadherin is important in the maintenance of the epithelial integrity, and is involved in mechanisms regulating proliferation, differentiation, and survival of epithelial cell. E-cadherin may also play a role in tumorigenesis. It is considered to be an invasion suppressor protein and its loss is an indicator of high tumor aggressiveness. E-cadherin is sensitive to trypsin digestion in the absence of Ca²⁺.

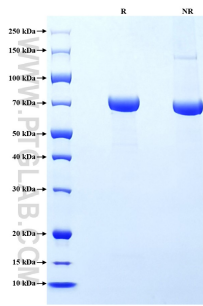
References

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- 3.Dongre A. et al. (2019) *Nat Rev Mol Cell Biol.* 20(2):69-84.
- 4.Yang, S. et al. (2013) *Biomed res int.* 2013:608728.
- 5.Harrison OJ. et al. (2010) *Nat Struct Mol Biol.* 17(3):348-357.
- 6.Biswas KH. et al. (2017) *Exp Cell Res.* 358(1):14-19.
- 7.Buckley CD. et al. (2014) *Science.* 346(6209):1254211.

Synonyms

E-cadherin,Arc 1,Cadherin 1,Cadherin-1,CAM 120/80

Selected Validation Data



Purity of Recombinant Human E-cadherin was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.

For technical support and original validation data for this product please contact

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