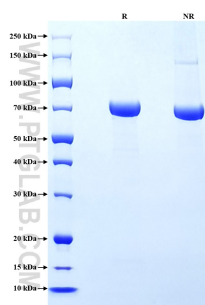


# Recombinant Human E-cadherin protein (His Tag)

Catalog Number: Eg1112

| Basic Information        | Species:<br>Human  | Purity:<br>>90 %, SDS-PAGE | Tag:<br>His Tag |
|--------------------------|--|----------------------------|-----------------|
| Technical Specifications | <p><b>Purity:</b><br/>&gt;90 %, SDS-PAGE</p> <p><b>Endotoxin Level:</b><br/>&lt;0.1 EU/ µg protein, LAL method</p> <p><b>Source:</b><br/>HEK293-derived Human E-cadherin protein Asp155-Ala709 (Accession# P12830-1) with a His tag at the C-terminus.</p> <p><b>GeneID:</b><br/>999</p> <p><b>Accession:</b><br/>P12830-1</p> <p><b>Predicted Molecular Mass:</b><br/>61.6 kDa</p> <p><b>SDS-PAGE:</b><br/>65-80 kDa, reducing (R) conditions</p> <p><b>Formulation:</b><br/>Lyophilized from 0.22 µm filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.</p>   |                            |                 |
| Biological Activity      | Not tested   |                            |                 |
| Storage and Shipping     | <p><b>Storage:</b><br/>It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.</p> <ul style="list-style-type: none"> <li>• Until expiry date, -20°C to -80°C as lyophilized proteins.</li> <li>• 3 months, -20°C to -80°C under sterile conditions after reconstitution.</li> </ul> <p><b>Shipping:</b><br/>The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.</p>   |                            |                 |
| Reconstitution           | Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.  |                            |                 |
| Background               | <p>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 Ca<sup>2+</sup>.</p> |                            |                 |
| References               | <ol style="list-style-type: none"> <li>1.Braga V. et al. (2016) Curr Opin Cell Biol. 42:138-21.</li> <li>2.Ishiyama N. et al. (2017) Cold Spring Harb Perspect Biol. 9(5):a028738.</li> <li>3.Dongre A. et al. (2019) Nat Rev Mol Cell Biol. 20(2):69-84.</li> <li>4.Yang, S. et al. (2013) Biomed res int. 2013:608728.</li> <li>5.Harrison OJ. et al. (2010) Nat Struct Mol Biol. 17(3):348-357.</li> <li>6.Biswas KH. et al. (2017) Exp Cell Res. 358(1):14-19.</li> <li>7.Buckley CD. et al. (2014) Science. 346(6209):1254211.</li> </ol>   |                            |                 |
| 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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