

# CDH1 (Human) Recombinant Protein

Catalog # P9364

Size 50 ug

## Specification

|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
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| <b>Product Description</b> | Human CDH1 partial recombinant protein with His tag in C-terminus expressed in <i>Escherichia coli</i> .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Sequence</b>            | DWVIPPISCPENEKGPFKPNLVQIKSNKDKEGKVFYSITGQGADTPPVGVFIERETGWLKVTEPLD<br>RERIATYTLFSAVSSNGNAVEDPMEILITVTDQNDNKPEFTQEVFKGSVMEGALPGTSVMEVTAT<br>DADDDVNTYNAAIAYTILSQDPELPDKNMFTINRNTGVISVTTGLDRESFPTYTLVVQAADLQEGG<br>LSTTATAVITVTDNDNPPIFNPTTYKGQVPENEANVVITTLKVTDADAPNTPAWEAVYTILNDDGG<br>QFVVTNPNVNNDGILKTAKGLDFEAKQQYILHVAVTNNVPFEVSLTTSTATVTVDVLDVNEAPIFVP<br>PEKRVEVSEDFGVGQEITSYTAQEPDTFMEQKITYRWRDTANWLEINPDTGAISTRAELDREDFE<br>HVKNSTYALIAIDNGSPVATGTGTLILLSDVNDNAPIEPRTIFFCERNPKPQVINIIDADLPPNTS<br>PFTAELTHGASANWTIQYNDPTQESIILKPKMALEVGDYKINLKLMDNQNKDQVTTLEVSVCDCG<br>AAGVCRKAQPVEAGLQIHIIHHHHH |
| <b>Host</b>                | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Form</b>                | Lyophilized                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Preparation Method</b>  | <i>Escherichia coli</i> expression system                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Purity</b>              | > 95% as determined by SDS-PAGE.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Storage Buffer</b>      | Lyophilized from a solution containing 1XPBS, pH 7.4. Reconstitute the lyophilized powder in ddH <sub>2</sub> O to 100 ug/mL.                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Storage Instruction</b> | Lyophilized protein at room temperature for 3 weeks, should be stored at -20°C. Protein aliquots at 4 °C for 2-7 days and should be stored at -20°C to -80°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).<br>Avoid repeated freeze/thaw cycles.                                                                                                                                                                                                                                                                                                                 |

## Applications

- SDS-PAGE

## Gene Info — CDH1

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| Entrez GeneID      | <a href="#">999</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Protein Accession# | <a href="#">P12830</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Gene Name          | CDH1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Gene Alias         | Arc-1, CD324, CDHE, ECAD, LCAM, UVO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Gene Description   | cadherin 1, type 1, E-cadherin (epithelial)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Omim ID            | <a href="#">137215</a> <a href="#">192090</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Gene Ontology      | <a href="#">Hyperlink</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Gene Summary       | This gene is a classical cadherin from the cadherin superfamily. The encoded protein is a calcium dependent cell-cell adhesion glycoprotein comprised of five extracellular cadherin repeats, a trans membrane region and a highly conserved cytoplasmic tail. Mutations in this gene are correlated with gastric, breast, colorectal, thyroid and ovarian cancer. Loss of function is thought to contribute to progression in cancer by increasing proliferation, invasion, and/or metastasis. The ectodomain of this protein mediates bacterial adhesion to mammalian cells and the cytoplasmic domain is required for internalization. Identified transcript variants arise from mutation at consensus splice sites. [provided by RefSeq] |
| Other Designations | cadherin 1, E-cadherin (epithelial) cadherin 1, type 1 calcium-dependent adhesion protein, epithelial cell-CAM 120/80 uvomorulin                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

## Pathway

- [Adherens junction](#)
- [Bladder cancer](#)
- [Cell adhesion molecules \(CAMs\)](#)
- [Endometrial cancer](#)
- [Melanoma](#)
- [Pathogenic Escherichia coli infection - EHEC](#)
- [Pathways in cancer](#)
- [Thyroid cancer](#)

## Disease

- [Adenocarcinoma](#)
- [Asthma](#)
- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Bronchiolitis](#)
- [Carcinoma](#)
- [Cleft Lip](#)
- [Cleft Palate](#)
- [Colitis](#)
- [Colorectal Neoplasms](#)
- [Crohn Disease](#)
- [Disease Progression](#)
- [Esophageal Neoplasms](#)
- [Genetic Predisposition to Disease](#)
- [Glaucoma](#)
- [Head and Neck Neoplasms](#)
- [Helicobacter Infections](#)
- [Hepatitis B](#)
- [Infant](#)
- [Kidney Neoplasms](#)
- [Laryngeal Neoplasms](#)
- [Leiomyoma](#)
- [Liver Neoplasms](#)
- [Low Tension Glaucoma](#)

- [Lung Neoplasms](#)
- [Lymphatic Metastasis](#)
- [Meningeal Neoplasms](#)
- [Meningioma](#)
- [Mouth Neoplasms](#)
- [Nasopharyngeal Neoplasms](#)
- [Neoplasm Invasiveness](#)
- [Neoplasm Metastasis](#)
- [Neoplasm Recurrence](#)
- [Neoplasms](#)
- [Neoplastic Syndromes](#)
- [Obesity](#)
- [Ocular Hypertension](#)
- [Ovarian cancer](#)
- [Ovarian Neoplasms](#)
- [Pancreatic cancer](#)
- [Pancreatic Neoplasms](#)
- [Pharyngeal Neoplasms](#)
- [Prostate cancer](#)
- [Prostatic Hyperplasia](#)
- [Prostatic Neoplasms](#)
- [Pulmonary Disease](#)
- [Respiratory Syncytial Virus Infections](#)
- [Stomach Neoplasms](#)
- [Tooth Abnormalities](#)
- [Ureteral Neoplasms](#)

- [Urinary Bladder Neoplasms](#)
- [Urinary Calculi](#)
- [Urologic Neoplasms](#)
- [Uterine Neoplasms](#)
- [Werner syndrome](#)