

## Active Recombinant Human CDH2 protein, His-tagged

Cat. No. CDH2-2191H    Lot. No. (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                       |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Active Recombinant Human CDH2 protein(NP_001783.2)(Met 1-Ala 724) was expressed in HEK293, fused with a polyhistidine tag at the C-terminus.                                                                                                                                          |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                 |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                |
| <b>ProteinLength</b>    | 1-724 aa                                                                                                                                                                                                                                                                              |
| <b>Form</b>             | Lyophilized from sterile PBS, pH 7.4.                                                                                                                                                                                                                                                 |
| <b>Bio-activity</b>     | Measured by the ability of the immobilized protein to support the adhesion of MCF-7 human breast adenocarcinoma cells. When 5 x 10E4 cells/well are added to Recombinant Human Cadherin-2 coated plates (5 µg/mL with 100 µL/well), apximately >50% will adhere after 1 hour at 37°C. |
| <b>Molecular Mass</b>   | The form of human CDH2 consists of 710 amino acids and predicts a molecular mass of 78.5 kDa. In SDS-PAGE under reducing conditions, the apparent molecular mass of CDH2 is 90 & 75 kDa corresponding to the fom and mature form respectively due to glycosylation.                   |
| <b>Endotoxin</b>        | < 1.0 EU per µg of the protein as determined by the LAL method.                                                                                                                                                                                                                       |
| <b>Purity</b>           | > 95 % as determined by SDS-PAGE                                                                                                                                                                                                                                                      |

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|                               |                                                                                                                                                                                      |
|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Storage</b>                | Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage. Avoid repeated freeze-thaw cycles. |
| <b>Reconstitution</b>         | It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.        |
| <b>protein Refseq-Weblink</b> | <a href="http://www.ncbi.nlm.nih.gov/protein/NP_001783.2">http://www.ncbi.nlm.nih.gov/protein/NP_001783.2</a>                                                                        |
| <b>Unit ID</b>                | P19022                                                                                                                                                                               |
| <b>Unit ID-Weblink</b>        | <a href="http://www.uniprot.org/uniprot/P19022">http://www.uniprot.org/uniprot/P19022</a>                                                                                            |

## GENE INFORMATION

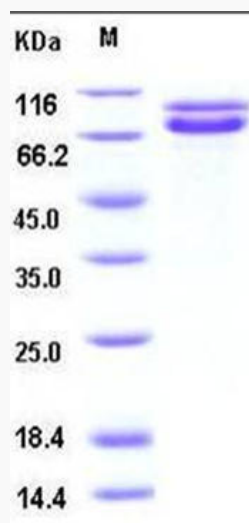
|                        |                                                                                                                                                                                                                                      |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | CDH2 cadherin 2, type 1, N-cadherin (neuronal) [ Homo sapiens ]                                                                                                                                                                      |
| <b>Official Symbol</b> | CDH2                                                                                                                                                                                                                                 |
| <b>Synonyms</b>        | CDH2; cadherin 2, type 1, N-cadherin (neuronal); NCAD; cadherin-2; CD325; CDHN; N cadherin; N-cadherin 1; neural cadherin; neural-cadherin; cadherin 2, N-cadherin (neuronal); calcium-dependent adhesion protein, neuronal; CDw325; |
| <b>Gene ID</b>         | 1000                                                                                                                                                                                                                                 |
| <b>mRNA Refseq</b>     | NM_001792                                                                                                                                                                                                                            |
| <b>protein Refseq</b>  | NP_001783                                                                                                                                                                                                                            |
| <b>MIM</b>             | 114020                                                                                                                                                                                                                               |

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## SDS-PAGE



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