# Active Recombinant Human CDH2, Fc tagged

**Cat. No.** CDH2-316H **Lot. No.** (See product label)

## SPECIFICATION

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| **Product Overview** | Recombinant Human CDH2 fussed with Fc tag was expressed in NS0 cell. |
| **Species** | Human |
| **Source** | Mammalian Cells |
| **Description** | 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 transmembrane region and a highly conserved cytoplasmic tail. The protein functions during gastrulation and is required for establishment of left-right asymmetry. At certain central nervous system synapses, presynaptic to postsynaptic adhesion is mediated at least in part by this gene product. |
| **Predicted N Terminal** | Asp160 |
| **Form** | Lyophilized from a 0.2 μm filtered solution in Tris-Citrate. See Certificate of Analysis for details. |
| **Bio-activity** | Measured by the ability of the immobilized protein to support the adhesion of U-118-MG human glioblastoma/astrocytoma cells.When 5 x 10^4 cells/well are added to Recombinant Human N-Cadherin Fc Chimera coated plates (10 μg/mL, 100 μl/well), =55% will adhere after 1 hour at room temperature. |
| **Molecular Mass** | Predicted Molecular Mass:89.2 kDa (monomer);SDS-PAGE:115 - 130 kDa, reducing conditions |

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| **Endotoxin** | < 1.0 EU per 1 μg of the protein by the LAL method. |
| **Purity** | >90%, by SDS-PAGE under reducing conditions and visualized by silver stain. |
| **Stability** | Use a manual defrost freezer and avoid repeated freeze-thaw cycles.12 months from date of receipt, -20 to -70 centigrade as supplied.1 month, 2 to 8 centigrade under sterile conditions after reconstitution.3 months, -20 to -70 centigrade under sterile conditions after reconstitution. |
| **Shipping** | Reconstitute at 100 g/mL in sterile, deionized water containing 2 mM calcium 24 hours prior to use. |

## GENE INFORMATION

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| **Gene Name** | CDH2 cadherin 2, type 1, N-cadherin (neuronal) [ Homo sapiens ] |
| **Official Symbol** | CDH2 |
| **Synonyms** | 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; |
| **Gene ID** | 1000 |
| **mRNA Refseq** | NM_001792 |
| **Protein Refseq** | NP_001783 |
| **MIM** | 114020 |
| **UniProt ID** | P19022 |

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| **Chromosome Location** | 18q12.1 |
| **Pathway** | Adherens junctions interactions, organism-specific biosystem; Arrhythmogenic right ventricular cardiomyopathy (ARVC), organism-specific biosystem; Arrhythmogenic right ventricular cardiomyopathy (ARVC), conserved biosystem; CDO in myogenesis, organism-specific biosystem; Cell adhesion molecules (CAMs), organism-specific biosystem; Cell adhesion molecules (CAMs), conserved biosystem; Cell junction organization, organism-specific biosystem; |
| **Function** | RPTP-like protein binding; alpha-catenin binding; beta-catenin binding; calcium ion binding; gamma-catenin binding; protein kinase binding; protein phosphatase binding; |

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