

Active Recombinant Human CDH2, Fc tagged

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

SPECIFICATION

Product Overview	Recombinant Human CDH2 fused 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 5×10^4 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 µg/mL in sterile, deionized water containing 2 mM calcium 24 hours prior to use.

GENE INFORMATION

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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