

Active Recombinant Human Cell Adhesion Molecule 2, His-tagged

Cat. No. CADM2-5605H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CADM2 protein was expressed in Murine myeloma cell line with a C-terminal 6-His tag. Ala21-Asp335.
Species	Human
Source	Mammalian Cells
Protein Length	21-335 a.a.
Description	CADM2 is an immunoglobulin super family member that is also designated as synaptic cell adhesion molecule 2 and nectin-like protein 3. The four CADM2 proteins, designated A, B, C and D, are type I transmembrane glycoproteins expressed mainly in epithelial cells that contain one V-type Ig-like and two C2-type Ig-like domains in their extracellular regions. These domains are characteristically responsible for Ca ²⁺ independent homophilic and heterophilic interactions in the brain, lung, kidney, bladder, prostate and testis.
Form	Lyophilized from a 0.2 µm filtered solution in PBS.
N-terminal Sequence	Ala21
Molecular Weight	35.5 kDa
Activity	Measured by its ability to enhance neurite outgrowth of E16-E18 rat embryonic

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	corticalneurons. Able to significantly enhance neurite outgrowth when immobilized as a 3 µL droplet containing 50 ng on a nitrocellulose-coated microplate.
Endotoxin Level	<1.0 EU per 1 µg of the protein by the LAL method.
SDS-PAGE	36-55kDa, reducing conditions
Purity	>95%, by SDS-PAGE under reducing conditions and visualized by silver stain.
Reconstitution	Reconstitute at 100 µg/mL in sterile PBS
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70°C as supplied. 1 month, 2 to 8 °C under sterile conditions after reconstitution. 3 months, -20 to -70°C under sterile conditions after reconstitution.

GENE INFORMATION

Gene Name	CADM2 cell adhesion molecule 2 [Homo sapiens]
Official Symbol	CADM2
Synonyms	CADM2; cell adhesion molecule 2; NECL3; IGSF4D; Necl-3; synCAM2; nectin-like 3; nectin-like protein 3; immunoglobulin superfamily member 4D; immunoglobulin superfamily, member 4D; MGC104534; MGC138341; MGC138343; OTTHUMP00000213814; OTTHUMP00000213815; OTTHUMP00000213816; SYNCAM2
Gene ID	253559
mRNA Refseq	NM_001167674

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Protein Refseq	NP_001161146
MIM	609938
UniProt ID	Q8N3J6
Chromosome Location	3p12.2
Pathway	Adherens junctionsinteractions; Cell junction organization; Cell-Cell communication; Cell-celljunction organization
Function	adherens junctionorganization; cell junction assembly; cell-cell junction organization

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