

Recombinant Human cell adhesion molecule 1, His-tagged

Cat. No. CADM1-617H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	CADM1, 45-374aa, Human, His tag, E.coli
Species	Human
Source	E.coli
ProteinLength	45-374 a.a.
Description	CADM1 mediates homophilic cell-cell adhesion in a Ca ²⁺ -independent manner and also mediates heterophilic cell-cell adhesion with CADM3 and PVRL3 in a Ca ²⁺ -independent manner. This protein acts as a tumor suppressor in non-small-cell lung cancer (NSCLC) cells. Interaction with CRTAM promotes natural killer (NK) cell cytotoxicity and interferon-gamma (IFN-gamma) secretion by CD8 ⁺ cells in vitro as well as NK cell-mediated rejection of tumors expressing CADM3 in vivo. Recombinant human CADM1 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Form	Liquid. In Phosphate buffered saline (pH7.4) containing 10% glycerol, 1mM DTT
Molecular Mass	39.4 kDa (353aa) confirmed by MALDI-TOF
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSQNLFTKD VTVIEGEVAT ISCQVNKSDD SVIQLLNPNR QTIYFRDFRP LKDSRFQLLN FSSSELKVSL TNVSISDEGR YFCQLYTDPP QESYTTITVL VPPRNLMDI QKDTAVEGEE IEVNCTAMAS KPATTIRWFK GNTLKGKSE VEEWSDMYTV TSQMLKVHK EDDGVPVICQ

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VEHPAVTGNL QTQRYLEVQY KPQVHIQMTY PLQGLTREGD ALELTCEAIG
 KPQPVMVTWV RVDDEMPQHA VLSGPNLFIN NLNKTDNGTY RCEASNIVGK
 AHSDYMLYVY DPPTTIPPPT TTTTTTTTTT TTILTIITDS RAGEEGSIRA VDH

Purity >85 % by SDS - PAGE

Storage Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.

Concentration 0.25 mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name [CADM1 cell adhesion molecule 1 \[Homo sapiens \]](#)

Official Symbol CADM1

Synonyms CADM1; cell adhesion molecule 1; IGSF4, immunoglobulin superfamily, member 4 , TSLC1, tumor suppressor in lung cancer 1; BL2; IGSF4A; Necl 2; NECL2; nectin like 2; RA175; ST17; SYNCAM; SYNCAM1; TSLC-1; nectin-like 2; nectin-like protein 2; truncated CADM1 protein; TSLC1/Nectin-like 2/IGSF4; synaptic cell adhesion molecule; tumor suppressor in lung cancer 1; immunoglobulin superfamily member 4; immunoglobulin superfamily, member 4; spermatogenic immunoglobulin superfamily; immunoglobulin superfamily, member 4D variant 2; IGSF4; TSLC1; Necl-2; sgIGSF; sTSLC-1; synCAM1; MGC51880; MGC149785; DKFZp686F1789;

Gene ID [23705](#)

mRNA Refseq [NM_001098517](#)

Protein Refseq [NP_001091987](#)

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MIM	605686
UniProt ID	Q9BY67
Chromosome Location	11q23.2
Pathway	Adherens junctions interactions, organism-specific biosystem; Cell adhesion molecules (CAMs), organism-specific biosystem; Cell adhesion molecules (CAMs), conserved biosystem; Cell junction organization, organism-specific biosystem; Cell-Cell communication, organism-specific biosystem; Cell-cell junction organization, organism-specific biosystem; Nectin/Necltrans heterodimerization, organism-specific biosystem;
Function	PDZ domain binding; protein C-terminus binding; protein homodimerization activity; receptor binding; receptor binding;

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