

# Recombinant human IGSF4A/CADM1 protein

Catalog Number: ATGP2840

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

45-374aa

### UniProt No.

Q9BY67

### NCBI Accession No.

NP\_055148

### Alternative Names

Cell adhesion molecule 1, Immunoglobulin superfamily member 4, IgSF4, Nectin-like protein 2, NECL-2, Spermatogenic immunoglobulin superfamily, SgIgSF, Synaptic cell adhesion molecule, SynCAM, Tumor suppressor in lung cancer 1, TSLC-1, ST17, BL2, IGSF4A, SYNCAM1, RA175

## PRODUCT SPECIFICATION

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### Molecular Weight

39.4 kDa (353aa) confirmed by MALDI-TOF

### Concentration

0.25mg/ml (determined by Bradford assay)

### Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol, 1mM DTT

### Purity

> 85% by SDS-PAGE

### Tag

His-Tag

### Application

SDS-PAGE

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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### Description

CADM1 mediates homophilic cell-cell adhesion in a Ca<sup>2+</sup>-independent manner and also mediates heterophilic cell-cell adhesion with CADM3 and PVRL3 in a Ca<sup>2+</sup>-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<sup>+</sup> cells in vitro as well as NK cell-mediated

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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.

## Amino acid Sequence

MGSSHHHHHH SSGLVPRGSH MGSQNLFTKD VTIIEGEVAT ISCQVNKSDD SVIQLLNPNR QTIYFRDFRP LKDSRFQLLN  
FSSSELKVSL TNVSISDEGR YFCQLYTDPP QESYTTITVL VPPRNLMIDI QKDTAVEGEE IEVNCTAMAS KPATTIRWFK  
GNTELKKGKSE VEEWSDMYTV TSQLMLKVHK EDDGVPVICQ VEHPAVTGNL QTQRYLEVQY KPQVHIQMTY PLQGLTREGD  
ALELTCEAIG KPQPVMVTWV RVDDEMPQHA VLSGPNLFIN NLNKTDNGTY RCEASNIVGK AHSYMLYVY DPPTTIPPT  
TTTTTTTTTT TTILTIITDS RAGEEGSIRA VDH

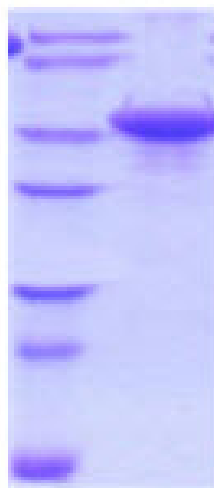
## General References

Barton C.H., et al. (1988) Development 104:165-173.

## DATA

### SDS-PAGE

(kDa)  
70  
57  
40  
28  
18  
13.5  
8.5



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)