

Recombinant human IGSF4A/CADM1 protein

Catalog Number: ATGP2840

PRODUCT INFORMATION

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

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

Description

CADM1 mediates homophilic cell-cell adhesion in a Ca²⁺-independent manner and also mediates heterophilic cell-cell adhesion with CADM3 and PVRL3 in a Ca²⁺-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

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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

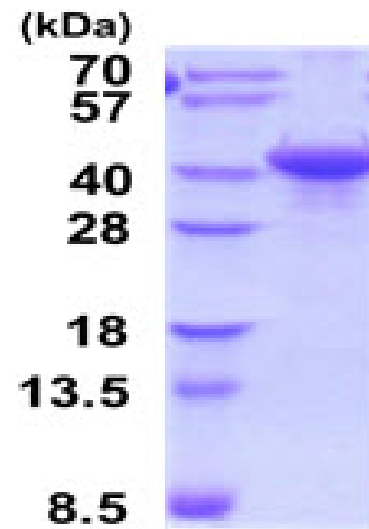
MGSSHHHHHH SSGLVPRGSH MGSQNLFTKD VTIIEGEVAT ISCQVNKSDD SVIQLLNPNR QTIYFRDFRP LKDSRFQLLN
FSSSELKVSL TNVSISDEGR YFCQLYTDPP QESYTTITVL VPPRNLMIDI QKDTAVEGEE IEVNCTAMAS KPATTIRWFK
GNTELKKGKSE VEEWSDMYTV TSQLMLKVHK EDDGVPVICQ VEHPAVTGNL QTQRYLEVQY KPQVHIQMTY PLQGLTREGD
ALELTCEAIG KPQPVMVTWV RVDDEMPQHA VLSGPNLFIN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

General References

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

DATA

SDS-PAGE



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

15% SDS-PAGE (3ug)