



Recombinant Human CADM1 Fc-Fusion Protein

Cat No: Pr00236-10.9

Product Summary

Description: Recombinant human CADM1 Fc-Fusion Protein manufactured using [AbAb's Recombinant Platform](#)

Protein: Human CADM1

Fc domain: Human IgG1

Structure / Form: Disulfide-linked homodimer

Species: Human

Construct Design Note(s): The extracellular domain of CADM1 has been fused to the Fc domain of human IgG1.

Host: HEK293

UniProt Accession Number: Q9BY67

Alternative Description: 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; CADM1-Ig; CADM1-Fc chimera; CADM1 (Fc tag)

Published Application(s):

Tested Applications(s):

Activity: Mediates homophilic cell-cell adhesion in a Ca²⁺-independent manner. Also mediates heterophilic cell-cell adhesion with CADM3 and NECTIN3 in a Ca²⁺-independent manner. 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. May contribute to the less invasive phenotypes of lepidic growth tumor cells. In mast cells, may mediate attachment to and promote communication with nerves. CADM1, together with MITF, is essential for development and survival of mast cells in vivo. Acts as a synaptic cell adhesion molecule and plays a role in the formation of dendritic spines and in synapse assembly (By similarity). May be involved in neuronal migration, axon growth, pathfinding, and fasciculation on the axons of differentiating neurons. May play diverse roles in the spermatogenesis including in the adhesion of spermatocytes and spermatids to Sertoli cells and for their normal differentiation into mature spermatozoa [Uniprot].

Product Form

Purification: IMAC purified

Supplied in: 0.1 mg size: PBS with preservative (0.02% Proclin 300), 1 mg size: PBS only.

Endotoxin: <1.0 EU/mg

Important note - This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals

Shipping: The product is shipped on blue ice. Upon receipt, store it immediately at the temperature recommended.

Storage Recommendation: Store at 4°C for up to 1 month. For longer term storage aliquot in small volumes and store at -20°C. Avoid repeated freeze-thaw cycles.

SDS PAGE Purity: >95%, as determined by SDS-PAGE and visualized by Coomassie Brilliant Blue.

Fc-Fusion Sequence (monomer)

IPTGDGQNLFTKDVTVIEGEVATISCQVNKSDDSVIQLLNPNRQTIIYFRDFRPLKDSRFQLLNFSSELKVSLTNVSISDE
GRYFCQLYTDPPQESYTTITVLVPPRNLMIDIQKDTAVEGEEIEVNCTAMASKPATTIRWFKGNTELK GKSEVEEWS
DMY
TVTSQLMLKVHKEDDGVPVICQVEHPAVTGNLQTQRYLEVQYKPQVHIQMTYPLQGLTREGDALELTCEAIGKPQ
PVM
VTWVRVDDEMPQHAVLSGPNLFINNLNKTDNGTYRCEASNIVGKAHSDYMLYVYDPPTTIPPTTTTTTTTTTT
TIT
DSRAGEEGSIRAVDHGGGGSGGGGSEPKSQDKTHTCPPCPAPPELLGGPSVFLFPPKPKDTLMISRTPEVTCV
VDVS
HEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKG
QPR
EPQVYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPVLDSGSFFLYSKLTVDKSRWQ
QGNV
FSCSVMHEALHNHYTQKSLSLSPGHHHHHH

Underlined amino acids sequence include a G4S linker and 6xHis epitope tag, respectively.

Calculated Molecular weight (dimer): 130632.44 Da

Extinction coefficient: 141380 (calculation performed as described by Pace *et al.* (1995), PMID: 8563639).

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