

Active Recombinant Mouse Cell Adhesion Molecule 1, His-tagged

Cat. No. Cadm1-5604M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Cadm1 protein was expressed in Murine myeloma cell line with a C-terminal 10-His tag. Ile42-Asp376.
Species	Mouse
Source	Mammalian Cells
Protein Length	42-376 a.a.
Description	Cadm1 is a 75 kDa immunoglobulin superfamily protein that mediates calcium-independent adhesive interactions, either homophilic or heterophilic with CRTAM (class I-restricted T cell-associated molecule), Nectin1 (SynCAM3) or Nectin3. Alternate names for Cadm1 reflect its activities. As Cadm1, it is downregulated in small cell lung cancer. This may allow evasion of antitumor responses, since Cadm1 interaction with CRTAM on activated NK and CD8+ T cells stimulates cytotoxicity and upregulates IFN- γ production.
Form	Lyophilized from a 0.2 μ m filtered solution in PBS.
N-terminal Sequence	Ile42
Molecular Weight	38.8 kDa
Activity	Measured by its ability to inhibit rhBMP-4-induced alkaline phosphatase production

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byATDC5 mouse chondrogenic cells. Binnerts, M.E. et al. (2004) Biochem.Biophys. Res. Commun. 315:272. The ED50 for this effect is typically 0.5-2 µg/mL in the presence of 75 ng/mL of rhBMP-4.

Endotoxin Level <1.0 EU per 1 µg of the protein by the LAL method.

SDS-PAGE 76-87kDa, reducing conditions

Purity >90%, 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 [Cadm1 cell adhesion molecule 1 \[Mus musculus \]](#)

Official Symbol [Cadm1](#)

Synonyms Cadm1; cell adhesion molecule 1; Bl2; ST17; IgSF4; Necl2; RA175; Tslc1; IgSF4a; RA175A; RA175B; RA175C; RA175N; SgIGSF; SynCam; AI987920; 2900073G06Rik; 3100001I08Rik; cell adhesion molecule 1; NECL-2; TSLC-1; nectin-like 2; nectin-like protein 2; immunoglobulin superfamily protein Bl2; synaptic cell adhesion molecule; tumor suppressor in lung cancer 1; immunoglobulin superfamily member 4; immunoglobulin superfamily member 4A; spermatogenic immunoglobulin superfamily; SynCam1

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Gene ID	54725
mRNA Refseq	NM_018770
Protein Refseq	NP_061240
UniProt ID	Q8R5M8
Chromosome Location	9; 9 B-C
Pathway	Adherens junctionsinteractions; Cell adhesion molecules (CAMs); Cell junction organization;Cell-Cell communication; Nectin/Necl trans heterodimerization
Function	PDZ domain binding;cell adhesion molecule binding; protein C-terminus binding; protein binding;protein homodimerization activity; receptor binding

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