

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-Histag. 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), Necl1 (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 anti-tumor 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; BI2; ST17; Igsf4; Necl2; RA175; Tslc1; Igsf4a; RA175A; RA175B; RA175C; RA175N; SglGSF; SynCam; AI987920; 2900073G06Rik; 3100001I08Rik; cell adhesion molecule 1; NECL-2; TSLC-1; nectin-like 2; nectin-like protein 2; immunosuperfamily protein BI2; 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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