



## CADM1 Recombinant Protein

CATALOG NUMBER: 91-601

### Specifications

|                        |                                                                                    |
|------------------------|------------------------------------------------------------------------------------|
| <b>SPECIES:</b>        | Mouse                                                                              |
| <b>SOURCE SPECIES:</b> | Human Cells                                                                        |
| <b>SEQUENCE:</b>       | Gln48-His388                                                                       |
| <b>FUSION TAG:</b>     | C-Fc tag                                                                           |
| <b>APPLICATIONS:</b>   | This recombinant protein can be used for biological assays. For research use only. |

### Properties

|                                    |                                                                                                                                                                                                                                             |
|------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>PURITY:</b>                     | Greater than 95% as determined by reducing SDS-PAGE.<br>Endotoxin level less than 0.1 ng/ug (1 IEU/ug) as determined by LAL test.                                                                                                           |
| <b>PREDICTED MOLECULAR WEIGHT:</b> | 65.3 kD                                                                                                                                                                                                                                     |
| <b>PHYSICAL STATE:</b>             | Lyophilized                                                                                                                                                                                                                                 |
| <b>BUFFER:</b>                     | Lyophilized from a 0.2 um filtered solution of PBS,pH7.4. It is not recommended to reconstitute to a concentration less than 100 ug/ml. Dissolve the lyophilized protein in ddH2O.                                                          |
| <b>STORAGE CONDITIONS:</b>         | Lyophilized protein should be stored at -20°C, though stable at room temperature for 3 weeks.<br>Reconstituted protein solution can be stored at 4-7°C for 2-7 days.<br>Aliquots of reconstituted samples are stable at -20°C for 3 months. |

### Additional Info

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|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>ALTERNATE NAMES:</b> | Cell adhesion molecule 1, Immunoglobulin superfamily member 4, IgSF4, Nectin-like protein 2, NECL-2, Spermatogenic immunoglobulin superfamily, SglgSF, Synaptic cell adhesion molecule, SynCAM, Tumor suppressor in lung cancer 1, TSLC-1, IGSF4A, SynCAM1 |
| <b>ACCESSION NO.:</b>   | Q8R5M8                                                                                                                                                                                                                                                     |

### Background

Cell adhesion molecule 1(CADM1) is a single-pass type I membrane protein and belongs to the nectin family. It contains 2 Ig-like C2-type (immunoglobulin-like) domains and 1 Ig-like V-type (immunoglobulin-like) domain. CADM1 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. CADM1 may contribute to the less invasive phenotypes of lepidic growth tumor cells. In mast cells, it may mediate attachment to and promote communication with nerves. CADM1, together with MITF, is essential for development and survival of mast cells in vivo. The protein acts as a synaptic cell adhesion molecule and plays a role in the formation of dendritic spines and in synapse assembly. It may be involved in neuronal migration, axon growth, pathfinding, and fasciculation on the axons of differentiating neurons. CADM1 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.

**FOR RESEARCH USE ONLY**