

HUMAN CADM1 PROTEIN, HIS TAG

Cat.#: 11864

Product Name: Human CADM1 Protein

Size: 10 µg, 50 µg and 100 µg

Synonyms: BL2;IGSF4;IGSF4A;Necl-2;NECL2;RA175;sgIGSF;ST17;sTSLC-1;SYNCAM;synCAM1;TSLC1

Target: CADM1

UNIPROT ID: Q9BY67

Description: Recombinant Human CADM1 Protein with C-terminal 6xHis tag

Background: Mediates homophilic cell-cell adhesion in a Ca^{2+} -independent manner. Also mediates heterophilic cell-cell adhesion with CADM3 and NECTIN3 in a Ca^{2+} -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.[UniProtKB/Swiss-Prot Function]

Species/Host: HEK293

Molecular Weight: The protein has a predicted molecular mass of 37.9 kDa after removal of the signal peptide. The apparent molecular mass of CADM1-His is approximately 55-70 kDa due to glycosylation.

Molecular Characterization: CADM1(Gln45-His374) 6xHis tag

Purity: The purity of the protein is greater than 85% as determined by SDS-PAGE and Coomassie blue staining.

Formulation & Reconstitution: Lyophilized from nanodisc solubilization buffer (20 mM Tris-HCl, 150 mM NaCl, pH 8.0). Normally 5% – 8% trehalose is added as protectants before lyophilization.

Storage & Shipping: Store at $-20^{\circ}C$ to $-80^{\circ}C$ for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at $-80^{\circ}C$ (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature.

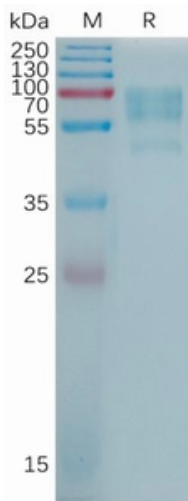


Figure 1. Human CADM1 Protein, His Tag on SDS-PAGE under reducing condition.