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CADM1 Protein (AA 48-388) (His tag)



Image



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Overview

Quantity:	1 mg
Target:	CADM1
Protein Characteristics:	AA 48-388
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CADM1 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA, Crystallization (Crys)

Product Details

Sequence:

QNLFTKDVTV IEGEVATISC QVNKSDDSVI QLLNPNRQTI YFRDFRPLKD SRFQLLNFSS
SELKVSLTNV SISDEGRYFC QLYTDPPQES YTTITVLVPP RNLMIDIQKD TAVEGEEIEV
NCTAMASKPA TTIRWFKGNK ELKGKSEVEE WSDMYTVTSQ LMLKVHKEDD GVPVICQVEH
PAVTGNLQTQ RYLEVQYKPQ VHIQMTYPLQ GLTREGDAFE LTCEAIGKPQ PVMVTWVRVD
DEMPQHAVLS GPNLFINNLN KTDNGTYRCE ASNIVGKAHS DYMLYVYDPP TTIPPPTTTT
TTTTTTTTT LTIITDTTAT TEPAVHDSRA GEEGTIGAVD H

Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a special request, please contact us.

Characteristics:

- Made in Germany from design to production by highly experienced protein experts.
- Mouse Cadm1 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made to order protein and will be made for the first time for your order. Our experts in the lab will ensure that you receive a correctly folded protein.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

In the unlikely event that the protein cannot be expressed or purified we do not charge anything (other companies might charge you for any performed steps in the expression process for custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression experiments or purification optimization).

When you order this made-to-order protein you will only pay upon receival of the correctly folded protein. With no financial risk on your end you can rest assured that our experienced protein experts will do everything to make sure that you receive the protein you ordered.

The concentration of our recombinant proteins is measured using the absorbance at 280nm.

The protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer.

The concentration of the protein is calculated using its specific absorption coefficient. We use the Expasy's protparam tool to determine the absorption coefficient of each protein.

Purification:

Two step purification of proteins expressed in baculovirus infected SF9 insect cells:

- 1. In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate fractions are analyzed by SDS-PAGE.
- 2. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.

Purity:

>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.

Sterility:

0.22 µm filtered

Endotoxin Level:

Protein is endotoxin free.

Grade:

Crystallography grade

Target Details

Target:	CADM1
Alternative Name:	Cadm1 (CADM1 Products)
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. 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. {ECO:0000269 PubMed:12202822, ECO:0000269 PubMed:12606335,
ECO:0000269 PubMed:12799182, ECO:0000269 PubMed:12826663,
ECO:0000269 PubMed:15158462, ECO:0000269 PubMed:15707673,
ECO:0000269 PubMed:15811952, ECO:0000269 PubMed:16605125,
ECO:0000269 PubMed:16612000, ECO:0000269 PubMed:23209303}.
39.1 kDa Including tag

Molecular Weight:	39.1 kDa Including tag.
UniProt:	Q8R5M8
Pathways:	Regulation of Leukocyte Mediated Immunity, Positive Regulation of Immune Effector Process,
	Cell-Cell Junction Organization, Activated T Cell Proliferation

Application Details

Application Details	
Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a gurantee though.
Comment:	Protein has not been tested for activity yet. In cases in which it is highly likely that the recombinant protein with the default tag will be insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible options with you in detail to assure that you receive your protein of interest.
Restrictions:	For Research Use only
Handling	
Format:	Liquid

Handling

Buffer:	100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)

Images

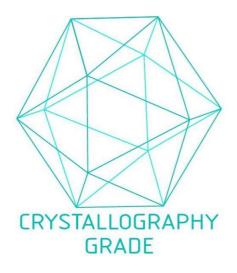


Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process