Datasheet for ABIN3117867 CADM1 Protein (AA 45-442) (rho-1D4 tag)

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Quantity:	1 mg
Target:	CADM1
Protein Characteristics:	AA 45-442
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CADM1 protein is labelled with rho-1D4 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 TTIRWFKGNT ELKGKSEVEE WSDMYTVTSQ LMLKVHKEDD GVPVICQVEH
	PAVTGNLQTQ RYLEVQYKPQ VHIQMTYPLQ GLTREGDALE LTCEAIGKPQ PVMVTWVRVD
	DEMPQHAVLS GPNLFINNLN KTDNGTYRCE ASNIVGKAHS DYMLYVYDPP TTIPPPTTTT
	TTTTTTTTI LTIITDSRAG EEGSIRAVDH AVIGGVVAVV VFAMLCLLII LGRYFARHKG

Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a
TYFTHEAKGA DDAADADTAI INAEGGQNNS EEKKEYFI

Characteristics:

• Made in Germany - from design to production - by highly experienced protein experts.

• Human CADM1 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade.

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special request, please contact us.

	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:	Three step purification of membrane proteins expressed in baculovirus infected SF9 insect
	cells:
	 Membrane proteins are fractioned by ultracentrifugation and subsequently solubilized with different detergents (detergent screen). Samples are analyzed by Western blot.
	2. The best performing detergent is used for solubilization and the proteins are purified via their
	rho1D4 tag via two rho1D4 antibody columns: one DTT resistant, the other one not. Eluate fractions are analyzed by Western blot.
	3. Protein containing fractions of the best purification are subjected to second purification step
	through size exclusion chromatograph. 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

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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 (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. {ECO:0000250, ECO:0000269 PubMed:11279526,	
	ECO:0000269 PubMed:12050160, ECO:0000269 PubMed:12234973,	
	ECO:0000269 PubMed:12920246, ECO:0000269 PubMed:15811952,	
	EC0:0000269 PubMed:15905536, EC0:0000269 PubMed:22438059}.	
Molecular Weight:	45.5 kDa Including tag.	
UniProt:	Q9BY67	
Pathways:	Regulation of Leukocyte Mediated Immunity, Positive Regulation of Immune Effector Process,	
	Cell-Cell Junction Organization, Activated T Cell Proliferation	
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:	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	

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Handling

Format:	Liquid
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)