

Datasheet for ABIN3137542

## CARM1 Protein (AA 1-608) (His tag)



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### 1 Image

#### Overview

Quantity:	1 mg
Target:	CARM1
Protein Characteristics:	AA 1-608
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CARM1 protein is labelled with His tag.
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)

#### Product Details

Sequence: MAAAAATAVG PGAGSAGVAG PGGAGPCATV SVFPGARLLT IGDANGEIQR HAEQQALRLE  
 VRAGPDAAGI ALYSHEDVCV FKCSVSRETE CSRVGRQSFI ITLGCNSVLI QFATPHDFCS  
 FYNILKTCRG HTLERSVFSE RTEESSAVQY FQFYGYLSQQ QNMMQDYVRT GTYQRAILQN  
 HTDFKDKIVL DVGCGSGILS FFAAQAGARK IYAVEASTMA QHAEVLVKS NLTDRIVVIP  
 GKVEEVSLPE QVDIIISEPM GYMLFNERML ESYLHAKKYL KPSGNMFPTI GDVHLAPFTD  
 EQLYMEQFTK ANFWYQPSFH GVDLSALRGA AVDEYFRQPV VDTFDIRILM AKSVKYTVNF  
 LEAKEGDLHR IEIPFKFHML HSGLVHGLAF WFDVAFIGSI MTVWLSTAPT EPLTHWYQVR  
 CLFQSPLFAK AGDTLSGTCL LIANKRQSYD ISIVAQVDQT GSKSSNLLDL KNPFFRYTGT  
 TPSPPPGSHY TSPSENMWNT GSTYNLSSGV AVAGMPTAYD LSSVIAGGSS VGHNLIPLA  
 NTGIVNHTHS RMGSIMSTGI VQGSSGAQGG GGSSSAHYAV NNQFTMGGA ISMASPMSIP  
 TNTMHYGS

**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 Carm1 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 receipt 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:	CARM1
Alternative Name:	Carm1 ( <a href="#">CARM1 Products</a> )
Background:	<p>Methylates (mono- and asymmetric dimethylation) the guanidino nitrogens of arginyl residues in several proteins involved in DNA packaging, transcription regulation, pre-mRNA splicing, and mRNA stability. Recruited to promoters upon gene activation together with histone acetyltransferases from EP300/P300 and p160 families, methylates histone H3 at 'Arg-17' (H3R17me), forming mainly asymmetric dimethylarginine (H3R17me2a), leading to activates transcription via chromatin remodeling. During nuclear hormone receptor activation and TCF7L2/TCF4 activation, acts synergically with EP300/P300 and either one of the p160 histone acetyltransferases NCOA1/SRC1, NCOA2/GRIP1 and NCOA3/ACTR or CTNNB1/beta-catenin to activate transcription. During myogenic transcriptional activation, acts together with NCOA3/ACTR as a coactivator for MEF2C. During monocyte inflammatory stimulation, acts together with EP300/P300 as a coactivator for NF-kappa-B. Acts as coactivator for PPARG, promotes adipocyte differentiation and the accumulation of brown fat tissue. Plays a role in the regulation of pre-mRNA alternative splicing by methylation of splicing factors. Also seems to be involved in p53/TP53 transcriptional activation. Methylates EP300/P300, both at 'Arg-2142', which may loosen its interaction with NCOA2/GRIP1, and at 'Arg-580' and 'Arg-604' in the KIX domain, which impairs its interaction with CREB and inhibits CREB-dependent transcriptional activation. Also methylates arginine residues in RNA-binding proteins PABPC1, ELAVL1 and ELAV4, which may affect their mRNA-stabilizing properties and the half-life of their target mRNAs. {ECO:0000269 PubMed:10381882, ECO:0000269 PubMed:11341840, ECO:0000269 PubMed:11701890, ECO:0000269 PubMed:11713257, ECO:0000269 PubMed:11983685, ECO:0000269 PubMed:11997499, ECO:0000269 PubMed:12756295, ECO:0000269 PubMed:14966289, ECO:0000269 PubMed:15186775, ECO:0000269 PubMed:15616592, ECO:0000269 PubMed:16322096, ECO:0000269 PubMed:17218272, ECO:0000269 PubMed:17882261, ECO:0000269 PubMed:18188184, ECO:0000269 PubMed:19843527, ECO:0000269 PubMed:19897492, ECO:0000269 PubMed:21138967}.</p>
Molecular Weight:	66.8 kDa Including tag.
UniProt:	<a href="#">Q9WVG6</a>
Pathways:	<a href="#">Intracellular Steroid Hormone Receptor Signaling Pathway</a> , <a href="#">Regulation of Intracellular Steroid Hormone Receptor Signaling</a> , <a href="#">Regulation of Lipid Metabolism by PPARalpha</a> , <a href="#">Regulation of Muscle Cell Differentiation</a> , <a href="#">Skeletal Muscle Fiber Development</a> , <a href="#">Positive Regulation of fat Cell</a>

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 guarantee 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
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