

Datasheet for ABIN3135238
NACAD Protein (AA 1-1504) (His tag)



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1 Image

Overview

Quantity:	1 mg
Target:	NACAD
Protein Characteristics:	AA 1-1504
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This NACAD protein is labelled with His tag.
Application:	Crystallization (Crys), ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Sequence: MSALPLALRS ARRAGARSLG LIGGRGSADV IYAPPPPSRG AVAVLATPSA LTDRGTERQG
 YRQAHVQAMP GEAAGAELPL PEAGGPGSRT DHSCDAAIAT ILKGDQLEPH GLTPGPSPLA
 LTFLLSSKPGA RPQPEGASWD AGPSGAASAW VDPAEGSPSL VVLPEGLPLR PVPAEGPLPT
 TLEPRIVMGE ETCQVIASPR AAWPVLRDRE GGHPALHPPP ELCSQGDPV PSPPPDLESY
 FTPSTPTKS THALLPDHGP HRDAWDLEAE LLELLDSTP ASPSGSYITA DGDSWASSPS
 CSLSLLDPAE GLDFPSDWGL SPSGSVADDL EPHPAAPPEP PSESSLSD SSSWSQEGH
 FFDPNFLAND PMIPAALLPF RGLIFQVEA VEVTPLPQEE EEDEEDVAAT AAAAAAATAA
 PDGDLAGEGE DDSTSASFLQ SLSDSLIIEG MDEAFARDD TSAASSSDS ASYAGADDDR
 LYSGEPHAQP SAQNTEQAYR SRATFPGIES TPQTSEQEIC LTNSQESVAE IAEEILTLGL
 ESEAMRTPPD QQAAPGPQVE ETPTVTPWVG NKVDLVVEQV SKALPEPCQE GISTTLGCKP
 LTAEAIPLDQ EGASPSLCPV LPEKKEEGQG LPSTLEYVAV ALEGPWKAEG GVTIPQDPLM
 TLPPLLQSTV PTSGPESVAV VALEPQQNEG CVTVLPDVPV VLPPSPQSVDPSSGPEAMAV

ATYEFQRAKE GTPGLQDSPV AASPALQGPD PTSEPEPEVV VTSRSQQDEG IVTVPQESPT
ASSLTLQSSH PTSDQEREVA ATLGPPQAEE GVTIPQVAPV ASPDLLQGLE STSDLESVVV
GTPESQQDEG IATATQDTPV MAPPPLRGTD STSDPELIAP DTSQALQREA GHTPGKPSV
SEAHQELGVA SGPRPVPKEG DAEPHPSAP PASNQAQQNG SEPGYKSDSF GAPEESDSTL
STKTSEPTSC MGEKVAANMS APKQGACLEA HDGVKTHSPQ REALRSKNKR GRGTKSPGQG
NGPKSATSQG AVETCRAHSA ARSEVSQPQL RSNEDTSGPR LPVAVSVQAR LGSCPGSPAR
ATCTLSRVYA EETSRCAPPF QHLEPMLGLG SAEQPKVTPG ILNLSPDNSA GDLLTTSQNR
FLDPDPAPST LDRASQSSPG PDPCLCPPP QKASEEEEEK PASRGMPRA GAQGAAAITT
SGSTKPPGAR QRVLSLPHST LNPKVAPTDT KDLACIISP CQVPPPSGTQ NPSGPREFPA
LEQKDEDSLE EDAQRAPGSG QRWESHGESS SELDEYLAPP PDAQRTPGSG QRSESHGESS
SELGEQDLSP QKSQCPAQP AGSNEETIAK AKQSRSEKKA RKAMSKLGLR QIQGVTRITI
QKSKNILFVI AKPDVFKSPA SDTYVVFGEA KIEDLSQQVH KAAAEKFKVP SEPSALVPEL
SPGPRVRPEC EEQEEDEEV EEAGLEPRDI ELVMAQANVT RAKAVRALKD NHSDIVNAIM ELTM

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 Nacad 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

Product Details

the Expsy's protparam tool to determine the absorption coefficient of each protein.

Purification:	Two step purification of proteins expressed in baculovirus infected SF9 insect cells: <ol style="list-style-type: none">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:	NACAD
Alternative Name:	Nacad (NACAD Products)
Background:	May prevent inappropriate targeting of non-secretory polypeptides to the endoplasmic reticulum (ER). May bind to nascent polypeptide chains as they emerge from the ribosome and block their interaction with the signal recognition particle (SRP), which normally targets nascent secretory peptides to the ER. May also reduce the inherent affinity of ribosomes for protein translocation sites in the ER membrane (M sites) (By similarity). {ECO:0000250}.
Molecular Weight:	157.7 kDa Including tag.
UniProt:	Q5SWP3

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.

Application Details

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