



[Go to Product page](#)

Datasheet for ABIN3094026

NACAD Protein (AA 1-1562) (Strep Tag)

1 Image

Overview

Quantity:	1 mg
Target:	NACAD
Protein Characteristics:	AA 1-1562
Origin:	Human
Source:	Tobacco (<i>Nicotiana tabacum</i>)
Protein Type:	Recombinant
Purification tag / Conjugate:	This NACAD protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Sequence: MPGEAARAEL LLPEADRP GP RTDLSCDAAA ATTILGGDRR EPCALTPGPS HLALTFLPSK
 PGARPQPEGA SWDAGPGGAP SAWADPGEGG PSPMILLPEGL SSQALSTEAP LPATLEPRIV
 MGEETCQALL SPRAARTALR DQEGGHASPD PPELCSQGD LSVSPPPDP DSFFTPPSTP
 TKTTYALLPA CGPHGDARDS EAELRDELLD SPPASPSGSY ITADGDSWAS SPSCSLSLLA
 PAEGLDFPSG WGLSPQGSMV DERELHPAGT PEPPSSESSL SADSSSSWGQ EGHFFDLDFL
 ANDPMIPAAL LPFQGS LIFQ VEAVEVTPLS PEEEEEEAVA DPDPGGDLAG EG EEDSTSAS
 FLQSLSDLSI TEGMDEAF AF RDDTSAASSD SDSASYAEAD DERLYSGEPH AQATLLQDSV
 QKTEESGGG AKGLQAQDGT VSWAVEAAPQ TSDRGAYLSQ RQELISEVTE EGLALGQEST
 ATVPTHTLQV APGLQVEVAT RVTPQAGEEE TDSTAGQESA AMAMPQPSQE GISEILGQES
 VTAEKLP TPQ EETSLTLCPD SPQNLKEEGG LDLPSGRKPV AAATIVPRQA KEDLTLPQDS
 AMTPPLPLQD TDLSSAPKPV AAATIVSQQA EEGLTLPQDS VMTPLPLQD TELSSAPKPV
 AAATLVSQQA EEGLTLPQDS AMTPPLPLQD TDLSSAPKPV AAATLVSQQA EEGLTLPQDS

AMTPPLPLQD TDLSSAPKPV AAATLVSQQA EEGLTLPQDS AMTPPLPLQD TDLSSAPKPV
AAATIVSQQA EEGLTLPQDS AMTPPLPLQD TDLSSAPKPV AAATIVSQQA EEGLTLPQDS
AMTPPLPLQD TDLSSAPKPV AAATPVSQQA EEGLTLPQDS AMTPPLPLQD TDLSSAPKPV
AAATPVSQQA EEGLTLPQDS AMTAPLPLQD TGPTSGPEPL AVATPQTLQA EAGCAPGTEP
VATMAQQEVG EALGPRPAPE EKNAALPTVP EPAALDQVQQ DDPQAAEAG TPWAAQEDAD
STLGMEALSL PEPASGAGEE IAEALSRPGR EACLEARAHT GDGAKPDSPQ KETLEVENQQ
EGGLKPLAQE HGPRALGGA REVPDAPPAA CPEVSQARLL SPAREERGLS GKSTPEPTLP
SAVATEASLD SCPESSVGAV SSLDRGCPDA PAPTSAPTSQ QPEPVLGLGS VEQPHEVPSV
LGTPLLQPPE NLAQGQPSTP VDRPLGPDPS APGTLAGAAL PPLEPPAPCL CQDPQEDSVE
DEEPPGSLGL PPPQAGVQPA AAVSGTTQP LGTGPRVSL SPSPLSPKV ASMDAKDLAL
QILPPCQVPP PSGPQSPAGP QGLSAPEQQE DEDSLEEDSP RALGSGQHSD SHGESSAELD
EQDILAPQTV QCPAQAPAGG SEETIAKAKQ SRSEKKARKA MSKLGLRQIQ GVTRITIQKS
KNILFVIKPV DVFKSPASDT YVVFGEAKIE DLSQQVHKA AEFKVPSEP SALVPESAPR
PRVRLECKEE EEEEEEEVDE AGLELRDIEL VMAQANVSRA KAVRALRDNH SDIVNAIMEL TM

Sequence without tag. The proposed Strep-Tag is based on experience s with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.

Characteristics:

Key Benefits:

- Made in Germany - from design to production - by highly experienced protein experts.
- Protein expressed with ALiCE® and purified by multi-step, protein-specific process to ensure correct folding and modification.
- These proteins are normally active (enzymatically functional) as our customers have reported (not tested by us and not guaranteed).
- 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.

Expression System:

- ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from *Nicotiana tabacum* c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require post-translational modifications.

Product Details

- During lysate production, the cell wall and other cellular components that are not required for protein production are removed, leaving only the protein production machinery and the mitochondria to drive the reaction. During our lysate completion steps, the additional components needed for protein production (amino acids, cofactors, etc.) are added to produce something that functions like a cell, but without the constraints of a living system - all that's needed is the DNA that codes for the desired protein!

Concentration:

- 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.
- We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.

Purification:	Two step purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®): <ol style="list-style-type: none">1. In a first purification step, the protein is purified from the cleared cell lysate using StrepTag capture material. 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:	>80 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Endotoxin Level:	Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg)
Grade:	Crystallography grade

Target Details

Target:	NACAD
Alternative Name:	NACAD (NACAD Products)
Background:	NAC-alpha domain-containing protein 1,FUNCTION: 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:	161.1 kDa

Target Details

UniProt: [O15069](#)

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: ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from *Nicotiana tabacum* c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require post-translational modifications.

During lysate production, the cell wall and other cellular components that are not required for protein production are removed, leaving only the protein production machinery and the mitochondria to drive the reaction. During our lysate completion steps, the additional components needed for protein production (amino acids, cofactors, etc.) are added to produce something that functions like a cell, but without the constraints of a living system - all that's needed is the DNA that codes for the desired protein!

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: The buffer composition is at the discretion of the manufacturer. If you have a special request, please contact us.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: Unlimited (if stored properly)



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