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CNTNAP1 Protein (AA 21-1385) (rho-1D4 tag)





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Overview

Quantity:	1 mg
Target:	CNTNAP1
Protein Characteristics:	AA 21-1385
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CNTNAP1 protein is labelled with rho-1D4 tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA, Crystallization (Crys)

Product Details

Sequence:

WGYYGCNEEL VGPLYARSLG ASSYYGLFTT ARFARLHGIS GWSPRIGDPN PWLQIDLMKK
HRIRAVATQG AFNSWDWVTR YMLLYGDRVD SWTPFYQKGH NATFFGNVND SAVVRHDLHY
HFTARYIRIV PLAWNPRGKI GLRLGIYGCP YTSSILYFDG DDAISYRFQR GASQSLWDVF
AFSFKTEEKD GLLLHTEGSQ GDYVTLELQG AHLLLHMSLG SSPIQPRPGH TTVSLGGVLN
DLSWHYVRVD RYGRDANFTL DGYAHHFVLN GDFERLNLEN EIFIGGLVGA ARKNLAYRHN
FRGCIENVIY NRINIAEMAV MRHSRITFEG NVAFRCLDPV PHPINFGGPH NFVQVPGFPR
RGRLAVSFRF RTWDLTGLLL FSHLGDGLGH VELMLSEGQV NVSIAQTGRK KLQFAAGYRL
NDGFWHEVNF VAQENHAVIS IDDVEGAEVR VSYPLLIRTG TSYFFGGCPK PASRWGCHSN
QTAFHGCMEL LKVDGQLVNL TLVEFRKLGY FAEVLFDTCG ITDRCSPNMC EHDGRCYQSW
DDFICYCELT GYKGVTCHEP LYKESCEAYR LSGKYSGNYT IDPDGSGPLK PFVVYCDIRE
NRAWTVVRHD RLWTTRVTGS SMDRPFLGAI QYWNASWEEV SALANASQHC EQWIEFSCYN
SRLLNTAGGY PYSFWIGRNE EQHFYWGGSQ PGIQRCACGL DQSCVDPALH CNCDADQPQW

RTDKGLLTFV DHLPVTQVVV GDTNRSNSEA QFFLRPLRCY GDRNSWNTIS FHTGAALRFP PIRANHSLDV SFYFRTSAPS GVFLENMGGP FCRWRRPYVR VELNTSRDVV FAFDIGNGDE NLTVHSDDFE FNDDEWHLVR AEINVKQARL RVDHRPWVLR PMPLQTYIWL VYDQPLYVGS AELKRRPFVG CLRAMRLNGV TLNLEGRANA SEGTFPNCTG HCTHPRFPCF HGGRCVERYS YYTCDCDLTA FDGPYCNHDI GGFFETGTWM RYNLQSALRS AAREFSHMLS RPVPGYEPGY VPGYDTPGYV PGYHGPGYRL PEYPRPGRPV PGYRGPVYNV TGEEVSFSFS TNSAPAVLLY VSSFVRDYMA VLIKEDGTLQ LRYQLGTSPY VYQLTTRPVT DGQPHSVNIT RVYRNLFIQV DYFPLTEQKF SLLVDSQLDS PKALYLGRVM ETGVIDPEIQ RYNTPGFSGC LSGVRFNNVA PLKTHFRTPR PMTAELAEAM RVQGELSESN CGAMPRLVSE VPPELDPWYL PPDFPYYHDD GWIAILLGFL VAFLLLGLVG MLVLFYLQNH RYKGSYHTNE PKATHDSHPG GKAPLPPSGP AQAPAPTPAP TQLPTPAPAP APAPASGPGP RDQNLPQILE ESRSE

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 Cntnap1 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:

Three step purification of membrane proteins expressed in baculovirus infected SF9 insect

cells:

- 1. 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.
- 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:

 $0.22\ \mu m$ filtered

CNTNAP1

Endotoxin Level:

Protein is endotoxin-free.

Grade:

Target:

Crystallography grade

Target Details

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Alternative Name:	Cntnap1 (CNTNAP1 Products)
Background:	Seems to play a role in the formation of functional distinct domains critical for saltatory
	conduction of nerve impulses in myelinated nerve fibers. Seems to demarcate the paranodal
	region of the axo-glial junction. In association with contactin may have a role in the signaling
	between axons and myelinating glial cells. Mice that lack CNTAP1 exhibit tremor, ataxia, and
	significant motor paresis. Normal paranodal junctions fail to form, and the organization of the
	paranodal loops is disrupted. Contactin is undetectable in the paranodes, and potassium
	channels are displaced from the juxtaparanodal into the paranodal domains. Also results in a
	severe decrease in peripheral nerve conduction velocity.
Molecular Weight:	155.4 kDa Including tag.
UniProt:	054991
Pathways:	Cell-Cell Junction Organization

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.

Application Details

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

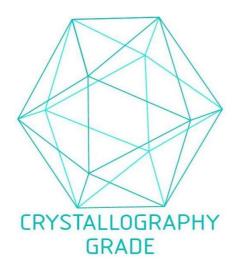


Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process