

Datasheet for ABIN3132926

Contactin 1 Protein (CNTN1) (AA 21-1001) (His tag)[Go to Product page](#)**1** Image

Overview

Quantity:	1 mg
Target:	Contactin 1 (CNTN1)
Protein Characteristics:	AA 21-1001
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Contactin 1 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA, Crystallization (Crys)

Product Details

Sequence:	DFTWHRRYGH GVSEEDKGFG PIFEEQPINT IYPEESLEGK VSLNCRARAS PFPVYKWRMN NGDVDLTNDR YSMVGGNLVI NNPDKQKDAG VYYCLASNNY GMVRSTEATL SFGYLDPFPP EERPEVKVKE GKGMVLLCDP PYHFPDDLSY RWLLNEFPVF ITMDKRRFVS QTNGNLYIAN VESSDRGNYS CFVSSPSITK SVFSKFIPLI PIPERTTKPY PADIVVQFKD IYTMMGQNV LECFALGNPV PDIRWRKVLE PMPSTAEIST SGAVLKIFNI QLEDEGLYEC EAENIRGKDK HQARIYVQAF PEWVEHINDT EVDIGSDLYW PCIATGKPIP TIRWLKNGYS YHKGELRLYD VTFENAGMYQ CIAENAYGSI YANAELKILA LAPTFEMNPM KKKILAAGGG RVIECKPKA APKPKFSWSK GTEWLVNSSR ILIWEDGSLE INNITRNDGG IYTCFAENNR GKANSTGTLV ITNPTRIILA PINADITVGE NATMQCAASF DPALDLTFVW SFNGYVIDFN KEITHIHYQR NFMLDANGEL LIRNAQLKHA GRYTCTAQT IVDNSSASADL VVRGPPGPPG GLRIEDIRAT SVALTWSRGS DNHSPISKYT IQTKTILSDD WKDAKTDPII IEGNMESAKA VDLIPWMEYE FRVVATNTLG TGEPSIPSNR IKTDGAAPNV APSDVGGGGG TNRELTITWA PLSREYHYGN
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NFGYIVAFKP FDGEWKKVT VTNPDTGRYV HKDETMTPT AFQVKVKAFN NKGDPYSLV
AVINSAQDAP SEAPTEVGK VLSSEISVH WKHVLEKIVE SYQIRYWAGH DKEAAHRVQ
VTSQEYSARL ENLLPDTQYF IEVGACNSAG CGPSSDIET FTRKAPPSQP PRISSVRSG
SRYIITWDHV VALSNESTVT GYKILYRPDG QHDGKLFSTH KHSIEVPIPR DGEYVVEVRA
HSDGGDGVVS QVKISGVSTL S

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 Cntn1 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.

Product Details

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:	Contactin 1 (CNTN1)
Alternative Name:	Cntn1 (CNTN1 Products)
Background:	<p>Contactins mediate cell surface interactions during nervous system development. Involved in the formation of paranodal axo-glial junctions in myelinated peripheral nerves and in the signaling between axons and myelinating glial cells via its association with CNTNAP1. Participates in oligodendrocytes generation by acting as a ligand of NOTCH1. Its association with NOTCH1 promotes NOTCH1 activation through the released notch intracellular domain (NICD) and subsequent translocation to the nucleus. Interaction with TNR induces a repulsion of neurons and an inhibition of neurite outgrowth. {ECO:0000269 PubMed:11395001, ECO:0000269 PubMed:14567914, ECO:0000269 PubMed:7678967}.</p>
Molecular Weight:	110.1 kDa Including tag.
UniProt:	P12960

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
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Handling

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