

CTNND2 Protein (AA 1-1225) (His tag)



1 Image

Overview

Quantity:	1 mg
Target:	CTNND2
Protein Characteristics:	AA 1-1225
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CTNND2 protein is labelled with His tag.
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)

Product Details

Sequence: MFARKPPGAA PLGAMPVPDQ PSSASEKTSS LSPGLNTSNG DGSETETTTSA ILASVKEQEL
QFERLTRELE AERQIVASQL ERCKLGSETG SMSSMSSAEE QFQWQSQDGQ KDIEDELTTG
LELVDSCIRS LQESGILDPQ DYSTGERPSL LSQSALQLNS KPEGSFQYPA SYHSNQTLAL
GETTPSQLPA RGTQARATGQ SFSQGTTSRA GHLAGPEPAP PPPPPPREPF APSLGSAFHL
PDAPPAAAAA ALYYSSSTLP APPRGGSPLA APQGGSPTKL QRGGSAPEGA TYAAPRGSSP
KQSPSRLAKS YSTSSPINIV VSSAGLSPIR VTSPPTVQST ISSSPIHQLS STIGTYATLS
PTKRLVHASE QYSKHSQELY ATATLQRP GS LAAGSRASYS SQHGHLGPEL RALQSPEHHI
DPIYEDRVYQ KPPMRSLSQS QGDPLPPAHT GTYRTSTAPS SPGVDSVPLQ RTGSQHGPQN
AAAATFQRAS YAAGPASNYA DPYRQLQYCP SVESPYSKSG PALPPEGTLA RSPSIDSIQK
DPREFGWRDP ELPEVIQMLQ HQFPSVQSNA AAYLQHLCFG DNKIKAEIRR QGGIQLLVLD
LDHRMTEVHR SACGALRNLV YGKANDDNKI ALKNCGGIPA LVRLLRKTTD LEIRELVTGV
LWNLSSCDAL KMPIIQDALA VLTNAVIIPH SGWENSPLQD DRKIQLHSSQ VLRNATGCLR

NVSSAGEEAR RRMRECDGLT DALLYVIQSA LGSSEIDSKT VENCVCILRN LSYRLAAETS
QGQHMGTDEL DGLLCGEANG KDAESSGCWG KKKKKKKSQD QWDGVGPLPD CAEPPKGIQM
LWHPISVKPY LTLLSECSNP DTLEGAAGAL QNLAAGSWKW SVYIRAAVRK EKGLPILVEL
LRIDNDRVVC AVATALRNMA LDVRNKELIG KYAMRDLVHR LPGGNNSNNT ASKAMSDDTV
TAVCCTLHEV ITKNMENAKA LRDAGGIEKL VGISKSKGDK HSPKVVKAAS QVLNSMWQYR
DLRSLYKKDG WSQYHFVASS STIERDRQRP YSSSRTPSIS PVRVSPNNRS ASAPASPREM
ISLKERKTDY ECTGSNATYH GAKGEHTSRK DAMTAQNTGI STLYRNSYGA PAEDIKHNVQ
SAQPVPQEPS RKDYETYQPF QNSTRNYDES FFEDQVHHRP PASEYTMHLG LKSTGNYVDF
YSAARPYSEL NYETSHYPAS PDSWV

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.
- Human CTNND2 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

Product Details

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: CTNND2

Alternative Name: CTNND2 ([CTNND2 Products](#))

Background: Has a critical role in neuronal development, particularly in the formation and/or maintenance of dendritic spines and synapses (PubMed:25807484). Involved in the regulation of Wnt signaling (PubMed:25807484). It probably acts on beta-catenin turnover, facilitating beta-catenin interaction with GSK3B, phosphorylation, ubiquitination and degradation (By similarity). Functions as a transcriptional activator when bound to ZBTB33 (By similarity). May be involved in neuronal cell adhesion and tissue morphogenesis and integrity by regulating adhesion molecules. {ECO:0000250|UniProtKB:O35927, ECO:0000269|PubMed:25807484, ECO:0000269|PubMed:9971746}.

Molecular Weight: 133.6 kDa Including tag.

UniProt: [Q9UQB3](#)

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: 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