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# CTNNA2 Protein (AA 1-953) (His tag)



**Image** 



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#### Overview

Quantity:	1 mg
Target:	CTNNA2
Protein Characteristics:	AA 1-953
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CTNNA2 protein is labelled with His tag.
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)

## **Product Details**

Sequence:

MTSATSPIIL KWDPKSLEIR TLTVERLLEP LVTQVTTLVN TSNKGPSGKK KGRSKKAHVL

AASVEQATQN FLEKGEQIAK ESQDLKEELV AAVEDVRKQG ETMRIASSEF ADDPCSSVKR

GTMVRAARAL LSAVTRLLIL ADMADVMRLL SHLKIVEEAL EAVKNATNEQ DLANRFKEFG

KEMVKLNYVA ARRQQELKDP HCRDEMAAAR GALKKNATML YTASQAFLRH PDVAATRANR

DYVFKQVQEA IAGISSAAQA TSPTDEAKGH TGIGELAAAL NEFDNKIILD PMTFSEARFR

PSLEERLESI ISGAALMADS SCTRDDRRER IVAECNAVRQ ALQDLLSEYM NNTGRKEKGD

PLNIAIDKMT KKTRDLRRQL RKAVMDHISD SFLETNVPLL VLIEAAKSGN EKEVKEYAQV

FREHANKLVE VANLACSISN NEEGVKLVRM AATQIDSLCP QVINAALTLA ARPQSKVAQD

NMDVFKDQWE KQVRVLTEAV DDITSVDDFL SVSENHILED VNKCVIALQE GDVDTLDRTA

GAIRGRAARV IHIINAEMEN YEAGVYTEKV LEATKLLSET VMPRFAEQVE VAIEALSANV

PQPFEENEFI DASRLVYDGV RDIRKAVLMI RTPEELEDDS DFEQEDYDVR SRTSVQTEDD

QLIAGQSARA IMAQLPQEEK AKIAEQVEIF HQEKSKLDAE VAKWDDSGND IIVLAKQMCM

IMMEMTDFTR GKGPLKNTSD VINAAKKIAE AGSRMDKLAR AVADQCPDSA CKQDLLAYLQ RIALYCHQLN ICSKVKAEVQ NLGGELIVSG TGVQSTFTTF YEVDCDVIDG GRASQLSTHL PTCAEGAPIG SGSSDSSMLD SATSLIQAAK NLMNAVVLTV KASYVASTKY QKVYGTAAVN SPVVSWKMKA PEKKPLVKRE KPEEFQTRVR RGSQKKHISP VQALSEFKAM DSF

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 Ctnna2 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

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.
- 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.

specific reference buffer.

Product Details	
Sterility:	0.22 µm filtered
Endotoxin Level:	Protein is endotoxin free.
Grade:	Crystallography grade
Target Details	
Target:	CTNNA2
Alternative Name:	Ctnna2 (CTNNA2 Products)
Background:	May function as a linker between cadherin adhesion receptors and the cytoskeleton to regulate cell-cell adhesion and differentiation in the nervous system. Regulates morphological plasticity of synapses and cerebellar and hippocampal lamination during development. Functions in the control of startle modulation. {ECO:0000269 PubMed:12089526, ECO:0000269 PubMed:12123610, ECO:0000269 PubMed:15034585}.
Molecular Weight:	106.2 kDa Including tag.
UniProt:	Q61301
Pathways:	Regulation of Muscle Cell Differentiation
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.
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.

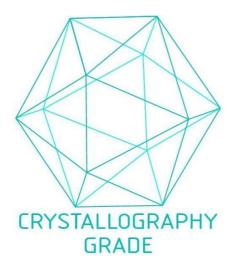
Avoid repeated freeze-thaw cycles.

Handling Advice:

## Handling

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