

Datasheet for ABIN3133684

CTNND1 Protein (AA 1-938) (Strep Tag)



[Go to Product page](#)

Overview

Quantity:	250 µg
Target:	CTNND1
Protein Characteristics:	AA 1-938
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This CTNND1 protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

Product Details

Brand:	AliCE®
Sequence:	<p>MDDSEVESTA SILASVKEQE AQFEKLTRAL EEERRHVSAQ LERVRVSPQD ANSLMANGTL</p> <p>TRRHQNGRFV GDADLERQKF SDLKLNGPQD HNHLLYSTIP RMQEPGQIVE TYTEEDPEGA</p> <p>MSVSVVETTD DGTTRRTETT VKKVVKMTMT RTVQPVPMGP DGLPVDASAV SNNYIQT LGR</p> <p>DFRKNGNGGP GPYVGQAGTA TLPRNFHYPP DGYGRHYEDG YPGGSDNYGS LSRVTRIEER</p> <p>YRPSMEGYRA PSRQDVYGPQ PQVRVGGSSV DLHRFHPEPY GLEDDQRSMG YDDL DYGMMS</p> <p>DYGTARRTGT PSDPRRLRS YEDMIGEEVP PDQYYWAPLA QHERGSLASL DSLRKGMPPP</p> <p>SNWRQPELPE VIAMLGFRD AVKSNAAYL QHLCYRNDKV KTDVRKLKGI PILVGLLDHP</p> <p>KKEVHLGACG ALKNISFGRD QDNKIAIKNC DGVPALVRL RKARDMDLTE VITGTLWNLS</p> <p>SHDSIKMEIV DHALHALTDE VIIPHS GWER EPNEDCKPRH IEWESVLTNT AGCLRNVSSE</p> <p>RSEARRKLRE CDGLVDALIF IVQAEIGQKD SDSKLVENCV CLLRNLSYQV HREIPQAERY</p> <p>QEALPTVANS TGPHAASCFG AKKGKDEWFS RGKKPTEDPA NDTVDFPKRT SPARGYELLF</p>

QPEVVRIYIS LLKESKTPAI LEASAGAIQN LCAGRWTYGR YIRSALRQEK ALSAIAELLT
SEHERVVKAA SGALRNLAVD ARNKELIGKH AIPNLVKNLP GGQQNSSWNF SEDTVVSILN
TINEVIAENL EAAKKLRETQ GIEKLVLINK SGNRSEKEVR AAALVLQTIW GYKELRKPLE
KEGWKKSDFQ VNLNNASRSQ SSHSYDDSTL PLIDRNQKSD KKPDRREEIPM SNMGSTKSL
DNNYSTLNER GDHNRTLDRS GDLGDMEPLK GAPLMQKI

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 in one-step affinity chromatography
- 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 try to ensure that you receive soluble 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.
- 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 against its specific reference buffer.
- We use the ExPASy's ProtParam tool to determine the absorption coefficient of each protein.

Product Details

Purification:	One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression System (AliCE®).
Purity:	> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).
Grade:	custom-made

Target Details

Target:	CTNND1
Alternative Name:	Ctnnd1 (CTNND1 Products)
Background:	<p>Catenin delta-1 (Cadherin-associated Src substrate) (CAS) (p120 catenin) (p120(ctn)) (p120(cas)),FUNCTION: Key regulator of cell-cell adhesion that associates with and regulates the cell adhesion properties of both C-, E- and N-cadherins, being critical for their surface stability. Beside cell-cell adhesion, regulates gene transcription through several transcription factors including ZBTB33/Kaiso2 and GLIS2, and the activity of Rho family GTPases and downstream cytoskeletal dynamics. Implicated both in cell transformation by SRC and in ligand-induced receptor signaling through the EGF, PDGF, CSF-1 and ERBB2 receptors. {ECO:0000250, ECO:0000269 PubMed:15138284, ECO:0000269 PubMed:15817151, ECO:0000269 PubMed:17344476}.</p>
Molecular Weight:	104.9 kDa
UniProt:	P30999
Pathways:	EGFR Signaling Pathway , Neurotrophin Signaling Pathway , Cell-Cell Junction Organization , CXCR4-mediated Signaling Events , Platelet-derived growth Factor Receptor Signaling

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:	<p>ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from <i>Nicotiana tabacum</i> 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.</p> <p>During lysate production, the cell wall and other cellular components that are not required for</p>

Application Details

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. Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol Might differ depending on protein.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months