

Datasheet for ABIN7555565

## Cortactin Protein (CTTN) (AA 1-550) (His tag)



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### Overview

Quantity:	1 mg
Target:	Cortactin (CTTN)
Protein Characteristics:	AA 1-550
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Cortactin protein is labelled with His tag.

### Product Details

Purpose:	Custom-made recombinant CTTN Protein expressed in mammalian cells.
Sequence:	<p>MWKASAGHAV SIAQDDAGAD DWETDPDFVN DVSEKEQRWG AKTVQGSGHQ EHINIHKLRE  NVFQEHQTLK EKELETGPKA SHGYGGKFGV EQDRMDKSAV GHEYQSKLSK HCSQVDSVRG  FGGKFGVQMD RVDQSAVGFE YQGKTEKHAS QKDYSSGFGG KYGVQADRVD KSAVGFDYQG  KTEKHESQRD YSKGFGGKYG IDKDKVDKSA VGFEYQGKTE KHESQKDYVK GFGGKFGVQT  DRQDKCALGW DHQEKQLLHE SQKDYKTGFG GKFGVQSERQ DSAAVGFDYK EKLAKHESQQ  DYSKGFGGKY GVQKDRMDKN ASTFEDVTQV SSAYQKTPPV EAVTSKTSNI RANFENLAKE  KEQEDRRKAE AERAQMAKE RQEQUEARRK LEEQARAKTQ TPPVSPAPQP TEERLPSSPV  YEDAASFKA ELSYRGPVSGT EPEPVYSMEA ADYREASSQQ GLAYATEAVY ESAEAPGHYP  AEDSTYDEYE NDLGITAVAL YDYQAAGDDE ISFDPDDIIT NIEMIDDGWW RGVCKGRYGL  FPANYVELRQ</p> <p><b>Sequence without tag. The proposed Purification-Tag is based on experiences 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.</b></p>

## Product Details

Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.
Characteristics:	<p>Key Benefits:</p> <ul style="list-style-type: none"><li>• Made to order protein - from design to production - by highly experienced protein experts.</li><li>• Protein expressed in mammalian cells and purified in one-step affinity chromatography</li><li>• The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.</li><li>• State-of-the-art algorithm used for plasmid design (Gene synthesis).</li></ul> <p>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.</p> <p>If you are not interested in a full length protein, please contact us for individual protein fragments.</p> <p>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.</p>
Purity:	> 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)
Grade:	custom-made

## Target Details

Target:	Cortactin (CTTN)
Alternative Name:	CTTN ( <a href="#">CTTN Products</a> )
Background:	<p>Src substrate cortactin (Amplaxin) (Oncogene EMS1),FUNCTION: Contributes to the organization of the actin cytoskeleton and cell shape (PubMed:21296879). Plays a role in the formation of lamellipodia and in cell migration. Plays a role in the regulation of neuron morphology, axon growth and formation of neuronal growth cones (By similarity). Through its interaction with CTTNBP2, involved in the regulation of neuronal spine density (By similarity). Plays a role in focal adhesion assembly and turnover (By similarity). In complex with ABL1 and MYLK regulates cortical actin-based cytoskeletal rearrangement critical to sphingosine 1-phosphate (S1P)-mediated endothelial cell (EC) barrier enhancement (PubMed:20861316). Plays a role in intracellular protein transport and endocytosis, and in modulating the levels of potassium channels present at the cell membrane (PubMed:17959782). Plays a role in receptor-mediated endocytosis via clathrin-coated pits (By similarity). Required for stabilization</p>

## Target Details

of KCNH1 channels at the cell membrane (PubMed:23144454). Plays a role in the invasiveness of cancer cells, and the formation of metastases (PubMed:16636290).  
{ECO:0000250|UniProtKB:Q60598, ECO:0000250|UniProtKB:Q66HL2,  
ECO:0000269|PubMed:16636290, ECO:0000269|PubMed:17959782,  
ECO:0000269|PubMed:21296879, ECO:0000269|PubMed:23144454}.

Molecular Weight: 61.6 kDa

UniProt: [Q14247](#)

Pathways: [MAPK Signaling](#)

## Application Details

Application Notes: We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

Restrictions: For Research Use only

## Handling

Format: Liquid

Buffer: The buffer composition 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: 12 months