Datasheet for ABIN7555712

TBCD Protein (AA 1-1192) (His tag)

Go to Product page

Overview

Quantity:	1 mg
Target:	TBCD
Protein Characteristics:	AA 1-1192
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This TBCD protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant TBCD Protein expressed in mammalian cells.
Sequence:	MALSDEPAAG GPEEEAEDET LAFGAALEAF GESAETRALL GRLREVHGGG AEREVALERF RVIMDKYQEQ PHLLDPHLEW MMNLLLDIVQ DQTSPASLVH LAFKFLYIIT KVRGYKTFLR LFPHEVADVE PVLDLVTIQN PKDHEAWETR YMLLLWLSVT CLIPFDFSRL DGNLLTQPGQ ARMSIMDRIL QIAESYLIVS DKARDAAAVL VSRFITRPDV KQSKMAEFLD WSLCNLARSS FQTMQGVITM DGTLQALAQI FKHGKREDCL PYAATVLRCL DGCRLPESNQ TLLRKLGVKL VQRLGLTFLK PKVAAWRYQR GCRSLAANLQ LLTQGQSEQK PLILTEDDDE DDDVPEGVER VIEQLLVGLK DKDTVVRWSA AKGIGRMAGR LPRALADDVV GSVLDCFSFQ ETDKAWHGGC LALAELGRRG LLLPSRLVDV VAVILKALTY DEKRGACSVG TNVRDAACYV CWAFARAYEP QELKPFVTAI SSALVIAAVF DRDINCRRAA SAAFQENVGR QGTFPHGIDI LTTADYFAVG NRSNCFLVIS VFIAGFPEYT QPMIDHLVTM KISHWDGVIR ELAARALHNL AQQAPEFSAT QVFPRLLSMT LSPDLHMRHG SILACAEVAY ALYKLAAQEN RPVTDHLDEQ AVQGLKQIHQ QLYDRQLYRG LGGQLMRQAV CVLIEKLSLS KMPFRGDTVI DGWQWLINDT LRHLHLISSH

Product Details

	SRQQMKDAAV SALAALCSEY YMKEPGEADP AIQEELITQY LAELRNPEEM TRCGFSLALG ALPGFLLKGR LQQVLTGLRA VTHTSPEDVS FAESRRDGLK AIARICQTVG VKAGAPDEAV CGENVSQIYC ALLGCMDDYT TDSRGDVGTW VRKAAMTSLM DLTLLLARSQ PELIEAHTCE RIMCCVAQQA SEKIDRFRAH AASVFLTLLH FDSPPIPHVP HRGELEKLFP RSDVASVNWS APSQAFPRIT QLLGLPTYRY HVLLGLVVSL GGLTESTIRH STQSLFEYMK GIQSDPQALG SFSGTLLQIF EDNLLNERVS VPLLKTLDHV LTHGCFDIFT TEEDHPFAVK LLALCKKEIK NSKDIQKLLS GIAVFCEMVQ FPGDVRRQAL LQLCLLLCHR FPLIRKTTAS QVYETLLTYS DVVGADVLDE VVTVLSDTAW DAELAVVREQ RNRLCDLLGV PRPQLVPQPG AC **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.**
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:	Key Benefits: • Made to order protein - from design to production - by highly experienced protein experts. • Protein expressed in mammalian cells and purified in one-step affinity chromatography • The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins. • 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. If you are not interested in a full length protein, please contact us for individual protein fragments. 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.
Purity:	> 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)
Grade:	custom-made

Target Details

Target:	TBCD
Alternative Name:	TBCD (TBCD Products)

Target Details

Background:	Tubulin-specific chaperone D (Beta-tubulin cofactor D) (tfcD) (SSD-1) (Tubulin-folding cofactor D),FUNCTION: Tubulin-folding protein implicated in the first step of the tubulin folding pathway and required for tubulin complex assembly. Involved in the regulation of microtubule polymerization or depolymerization, it modulates microtubule dynamics by capturing GTP-bound beta-tubulin (TUBB). Its ability to interact with beta tubulin is regulated via its interaction with ARL2. Acts as a GTPase-activating protein (GAP) for ARL2. Induces microtubule disruption in absence of ARL2. Increases degradation of beta tubulin, when overexpressed in polarized cells. Promotes epithelial cell detachment, a process antagonized by ARL2. Induces tight adherens and tight junctions disassembly at the lateral cell membrane (PubMed:10722852, PubMed:10831612, PubMed:11847227, PubMed:20740604, PubMed:27666370, PubMed:28158450). Required for correct assembly and maintenance of the mitotic spindle, and proper progression of mitosis (PubMed:27666370). Involved in neuron morphogenesis (PubMed:27666374). {ECO:0000269|PubMed:10722852, ECO:0000269|PubMed:10831612, ECO:0000269|PubMed:11847227, ECO:0000269|PubMed:20740604, ECO:0000269|PubMed:27666370, ECO:0000269|PubMed:27666374, ECO:0000269|PubMed:28158450}.
Molecular Weight:	132.6 kDa
UniProt:	Q9BTW9
Pathways:	Cell-Cell Junction Organization

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