Datasheet for ABIN7553571

TMEM63B Protein (AA 1-832) (His tag)

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Overview

Quantity:	1 mg
Target:	TMEM63B
Protein Characteristics:	AA 1-832
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This TMEM63B protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant TMEM63B Protein expressed in mammalian cells.
Sequence:	MLPFLLATLG TTALNNSNPK DYCYSARIRS TVLQGLPFGG VPTVLALDFM CFLALLFLFS ILRKVAWDYG RLALVTDADR LRRQERDRVE QEYVASAMHG DSHDRYERLT SVSSSVDFDQ RDNGFCSWLT AIFRIKDDEI RDKCGGDAVH YLSFQRHIIG LLVVVGVLSV GIVLPVNFSG DLLENNAYSF GRTTIANLKS GNNLLWLHTS FAFLYLLLTV YSMRRHTSKM RYKEDDLVKR TLFINGISKY AESEKIKKHF EEAYPNCTVL EARPCYNVAR LMFLDAERKK AERGKLYFTN LQSKENVPTM INPKPCGHLC CCVVRGCEQV EAIEYYTKLE QKLKEDYKRE KEKVNEKPLG MAFVTFHNET ITAIILKDFN VCKCQGCTCR GEPRPSSCSE SLHISNWTVS YAPDPQNIYW EHLSIRGFIW WLRCLVINVV LFILLFFLTT PAIIITTMDK FNVTKPVEYL NNPIITQFFP TLLLWCFSAL LPTIVYYSAF FEAHWTRSGE NRTTMHKCYT FLIFMVLLLP SLGLSSLDLF FRWLFDKKFL AEAAIRFECV FLPDNGAFFV NYVIASAFIG NAMDLLRIPG LLMYMIRLCL ARSAAERRNV KRHQAYEFQF GAAYAWMMCV FTVVMTYSIT CPIIVPFGLM YMLLKHLVDR YNLYYAYLPA KLDKKIHSGA VNQVVAAPIL CLFWLLFFST MRTGFLAPTS MFTFVVLVIT IVICLCHVCF

Product Details

	GHFKYLSAHN YKIEHTETDT VDPRSNGRPP TAAAVPKSAK YIAQVLQDSE VDGDGDGAPG SSGDEPPSSS SQDEELLMPP DALTDTDFQS CEDSLIENEI HQ **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:	TMEM63B
Alternative Name:	TMEM63B (TMEM63B Products)
Background:	CSC1-like protein 2 (Transmembrane protein 63B),FUNCTION: Acts as an osmosensitive calcium-permeable cation channel (By similarity). Mechanosensitive ion channel that converts mechanical stimuli into a flow of ion (PubMed:37543036). Acts as an inner ear osmosensor, essential for normal hearing and survival of inner ear outer hair cells (OHCs). Mediates calcium-dependent regulatory volume decrease in OHCs which is necessary for their survival. Required for the maintenance of the morphological integrity of OHCs under hypotonic conditions.

Target Details

	Mediates hypo-osmolarity-induced calcium influx, leading to activation of calcium-dependent potassium channels required for the maintenance of OHC morphology (By similarity). {ECO:0000250|UniProtKB:Q3TWI9, ECO:0000269|PubMed:37543036}.
Molecular Weight:	95.0 kDa
UniProt:	Q5T3F8

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