Datasheet for ABIN7554246

KCNC3 Protein (AA 1-757) (His tag)

Go to Product page

Overview

Quantity:	1 mg
Target:	KCNC3
Protein Characteristics:	AA 1-757
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This KCNC3 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant KCNC3 Protein expressed in mammalian cells.
Sequence:	MLSSVCVSSF RGRQGASKQQ PAPPPQPPES PPPPPLPPQQ QQPAQPGPAA SPAGPPAPRG PGDRRAEPCP GLPAAAMGRH GGGGGDSGKI VINVGGVRHE TYRSTLRTLP GTRLAGLTEP EAAARFDYDP GADEFFFDRH PGVFAYVLNY YRTGKLHCPA DVCGPLFEEE LGFWGIDETD VEACCWMTYR QHRDAEEALD SFEAPDPAGA ANAANAAGAH DGGLDDEAGA GGGGLDGAGG ELKRLCFQDA GGGAGGPPGG AGGAGGTWWR RWQPRVWALF EDPYSSRAAR YVAFASLFFI LISITTFCLE THEGFIHISN KTVTQASPIP GAPPENITNV EVETEPFLTY VEGVCVVWFT FEFLMRITFC PDKVEFLKSS LNIIDCVAIL PFYLEVGLSG LSSKAAKDVL GFLRVVRFVR ILRIFKLTRH FVGLRVLGHT LRASTNEFLL LIIFLALGVL IFATMIYYAE RIGADPDDIL GSNHTYFKNI PIGFWWAVVT MTTLGYGDMY PKTWSGMLVG ALCALAGVLT IAMPVPVIVN NFGMYYSLAM AKQKLPKKKN KHIPRPPQPG SPNYCKPDPP PPPPPHPHHG SGGISPPPPI TPPSMGVTVA GAYPAGPHTH PGLLRGGAGG LGIMGLPPLP APGEPCPLAQ EEVIEINRAD PRPNGDPAAA ALAHEDCPAI DQPAMSPEDK SPITPGSRGR YSRDRACFLL TDYAPSPDGS IRKATGAPPL

Product Details

	PPQDWRKPGP PSFLPDLNAN AAAWISP **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:	KCNC3
Alternative Name:	KCNC3 (KCNC3 Products)
Background:	Potassium voltage-gated channel subfamily C member 3 (KSHIIID) (Voltage-gated potassium channel subunit Kv3.3),FUNCTION: Voltage-gated potassium channel that plays an important role in the rapid repolarization of fast-firing brain neurons. The channel opens in response to the voltage difference across the membrane, forming a potassium-selective channel through which potassium ions pass in accordance with their electrochemical gradient. The channel displays rapid activation and inactivation kinetics (PubMed:10712820, PubMed:26997484, PubMed:22289912, PubMed:23734863, PubMed:16501573, PubMed:19953606,

Target Details

	PubMed:21479265, PubMed:25756792). It plays a role in the regulation of the frequency, shape and duration of action potentials in Purkinje cells. Required for normal survival of cerebellar neurons, probably via its role in regulating the duration and frequency of action potentials that in turn regulate the activity of voltage-gated Ca(2+) channels and cellular Ca(2+) homeostasis (By similarity). Required for normal motor function (PubMed:23734863, PubMed:16501573, PubMed:19953606, PubMed:21479265, PubMed:25756792). Plays a role in the reorganization of the cortical actin cytoskeleton and the formation of actin veil structures in neuronal growth cones via its interaction with HAX1 and the Arp2/3 complex (PubMed:26997484). {ECO:0000250|UniProtKB:Q63959, ECO:0000269|PubMed:10712820, ECO:0000269|PubMed:16501573, ECO:0000269|PubMed:19953606, ECO:0000269|PubMed:21479265, ECO:0000269|PubMed:22289912, ECO:0000269|PubMed:23734863, ECO:0000269|PubMed:25756792, ECO:0000269|PubMed:26997484}.
Molecular Weight:	80.6 kDa
UniProt:	Q14003

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