

Datasheet for ABIN7554321 KCNMA1 Protein (AA 1-1236) (His tag)



Overview

Quantity:	1 mg
Target:	KCNMA1
Protein Characteristics:	AA 1-1236
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This KCNMA1 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat KCNMA1 Protein expressed in mammalien cells.
Sequence:	MANGGGGGGG SSGGGGGGG SSLRMSSNIH ANHLSLDASS SSSSSSSSSS SSSSSSSSS
	VHEPKMDALI IPVTMEVPCD SRGQRMWWAF LASSMVTFFG GLFIILLWRT LKYLWTVCCH
	CGGKTKEAQK INNGSSQADG TLKPVDEKEE AVAAEVGWMT SVKDWAGVMI SAQTLTGRVL
	VVLVFALSIG ALVIYFIDSS NPIESCQNFY KDFTLQIDMA FNVFFLLYFG LRFIAANDKL
	WFWLEVNSVV DFFTVPPVFV SVYLNRSWLG LRFLRALRLI QFSEILQFLN ILKTSNSIKL
	VNLLSIFIST WLTAAGFIHL VENSGDPWEN FQNNQALTYW ECVYLLMVTM STVGYGDVYA
	KTTLGRLFMV FFILGGLAMF ASYVPEIIEL IGNRKKYGGS YSAVSGRKHI VVCGHITLES
	VSNFLKDFLH KDRDDVNVEI VFLHNISPNL ELEALFKRHF TQVEFYQGSV LNPHDLARVK
	IESADACLIL ANKYCADPDA EDASNIMRVI SIKNYHPKIR IITQMLQYHN KAHLLNIPSW
	NWKEGDDAIC LAELKLGFIA QSCLAQGLST MLANLFSMRS FIKIEEDTWQ KYYLEGVSNE
	MYTEYLSSAF VGLSFPTVCE LCFVKLKLLM IAIEYKSANR ESRILINPGN HLKIQEGTLG

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	FFIASDAKEV KRAFFYCKAC HDDITDPKRI KKCGCKRPKM SIYKRMRRAC CFDCGRSERD
	CSCMSGRVRG NVDTLERAFP LSSVSVNDCS TSFRAFEDEQ PSTLSPKKKQ RNGGMRNSPN
	TSPKLMRHDP LLIPGNDQID NMDSNVKKYD STGMFHWCAP KEIEKVILTR SEAAMTVLSG
	HVVVCIFGDV SSALIGLRNL VMPLRASNFH YHELKHIVFV GSIEYLKREW ETLHNFPKVS
	ILPGTPLSRA DLRAVNINLC DMCVILSANQ NNIDDTSLQD KECILASLNI KSMQFDDSIG
	VLQANSQGFT PPGMDRSSPD NSPVHGMLRQ PSITTGVNIP IITELVNDTN VQFLDQDDD
	DPDTELYLTQ PFACGTAFAV SVLDSLMSAT YFNDNILTLI RTLVTGGATP ELEALIAEEN
	ALRGGYSTPQ TLANRDRCRV AQLALLDGPF ADLGDGGCYG DLFCKALKTY NMLCFGIYRL
	RDAHLSTPSQ CTKRYVITNP PYEFELVPTD LIFCLMQFDH NAGQSRASLS HSSHSSQSSS
	KKSSSVHSIP STANRQNRPK SRESRDKQKY VQEERL 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.
Characteristics:	Key Benefits:
	 Made to order protein - from design to production - by highly experienced protein experts. Protein expressed in mammalien 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, Western Blot
Grade:	custom-made
Target Details	
Target:	KCNMA1

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Alternative Name:	KCNMA1 (KCNMA1 Products)

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Target Details	
Background:	Calcium-activated potassium channel subunit alpha-1 (BK channel) (BKCA alpha) (Calcium- activated potassium channel, subfamily M subunit alpha-1) (K(VCA)alpha) (KCa1.1) (Maxi K channel) (MaxiK) (Slo-alpha) (Slo1) (Slowpoke homolog) (Slo homolog) (hSlo),FUNCTION: Potassium channel activated by both membrane depolarization or increase in cytosolic Ca(2+) that mediates export of K(+) (PubMed:29330545, PubMed:31152168). It is also activated by the concentration of cytosolic Mg(2+). Its activation dampens the excitatory events that elevate the cytosolic Ca(2+) concentration and/or depolarize the cell membrane. It therefore contributes to repolarization of the membrane potential. Plays a key role in controlling excitability in a number of systems, such as regulation of the contraction of smooth muscle, the tuning of hair cells in the cochlea, regulation of transmitter release, and innate immunity. In smooth muscles, its activation by high level of Ca(2+), caused by ryanodine receptors in the sarcoplasmic reticulum, regulates the membrane potential. In cochlea cells, its number and kinetic properties partly determine the characteristic frequency of each hair cell and thereby helps to establish a tonotopic map. Kinetics of KCNMA1 channels are determined by alternative splicing, phosphorylation status and its combination with modulating beta subunits. Highly sensitive to both iberiotoxin (IbTx) and charybdotoxin (CTX). {ECO:0000269 PubMed:29330545, ECO:0000269 PubMed:31152168}.
Molecular Weight:	137.6 kDa
UniProt:	Q12791
Pathways:	Regulation of Hormone Metabolic Process, Sensory Perception of Sound
Application Details	
Application Notes: Restrictions:	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. 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.
	-80 °C

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Handling	
Storage Comment:	Store at -80°C.
Expiry Date:	12 months

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