

Datasheet for ABIN7564650 KCNQ3 Protein (AA 1-873) (His tag)



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Quantity:	1 mg
Target:	KCNQ3
Protein Characteristics:	AA 1-873
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This KCNQ3 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant Kcnq3 Protein expressed in mammalian cells.
Sequence:	MGLKARRAAG AAGGGGGGGG GGGGGAANPA GGDSAVAGDE ERKVGLAPGD VEQVTLALGA
	GADKDGTLLL EGGGREEGQR RTPQGIGLLA KTPLSRPVKR NNAKYRRIQT LIYDALERPR
	GWALLYHALV FLIVLGCLIL AVLTTFKEYE TVSGDWLLLL ETFAIFIFGA EFALRIWAAG
	CCCRYKGWRG RLKFARKPLC MLDIFVLIAS VPVVAVGNQG NVLATSLRSL RFLQILRMLR
	MDRRGGTWKL LGSAICAHSK ELITAWYIGF LTLILSSFLV YLVEKDVPEM DAQGEEMKEE
	FETYADALWW GLITLATIGY GDKTPKTWEG RLIAATFSLI GVSFFALPAG ILGSGLALKV
	QEQHRQKHFE KRRKPAAELI QAAWRYYATN PNRLDLVATW RFYESVVSFP FFRKEQLEAA
	ASQKLGLLDR VRLSNPRGSN TKGKLFTPLN VDAIEESPSK EPKPVGLNNK ERFRTAFRMK
	AYAFWQSSED AGTGDPMAED RGYGNDFLIE DMIPTLKAAI RAVRILQFRL YKKKFKETLR
	PYDVKDVIEQ YSAGHLDMLS RIKYLQTRID MIFTPGPPST PKHKKSQKGS AFTYPSQQSP
	RNEPYVARAA TSETEDQSMM GKFVKVERQV HDMGKKLDFL VDMHMQHMER LQVHVTEYYP
	TKGASSPAEG EKKEDNRYSD LKTIICNYSE TGPPDPPYSF HQVPIDRVGP YGFFAHDPVK

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LTRGGPSSTK AQANLPSSGS TYAERPTVLP ILTLLDSCVS YHSQTELQGP YSDHISPRQR RSITRDSDTP LSLMSVNHEE LERSPSGFSI SQDRDDYVFG PSGGSSWMRE KRYLAEGETD TDTDPFTPSG SMPMSSTGDG ISDSIWTPSN KPT Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity
TDTDPFTPSG SMPMSSTGDG ISDSIWTPSN KPT Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity
Purification-Tag is based on experiences with the expression system, a different complexity
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of the protein could make another tag necessary. In case you have a special request, please
contact us.
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.
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 entire interaction expression expressin expression expression expression expression expression express
 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.
> 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC

Target Details

Target:	KCNQ3
Alternative Name:	Kcnq3 (KCNQ3 Products)
Background:	Potassium voltage-gated channel subfamily KQT member 3 (KQT-like 3) (Potassium channel
	subunit alpha KvLQT3) (Voltage-gated potassium channel subunit Kv7.3),FUNCTION:
	Associates with KCNQ2 or KCNQ5 to form a potassium channel with essentially identical
	properties to the channel underlying the native M-current, a slowly activating and deactivating
	potassium conductance which plays a critical role in determining the subthreshold electrical

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Target Details

	excitability of neurons as well as the responsiveness to synaptic inputs. Therefore, it is
	important in the regulation of neuronal excitability. KCNQ2-KCNQ3 channel is selectively
	permeable to other cations besides potassium, in decreasing order of affinity K(+) > Rb(+) >
	Cs(+) > Na(+). Associates with Na(+)-coupled myo-inositol symporter SLC5A3 forming a
	coregulatory complex that alters ion selectivity, increasing Na(+) and Cs(+) permeation relative
	to K(+) permeation. {ECO:0000250 UniProtKB:043525}.
Molecular Weight:	96.9 kDa
UniProt:	Q8K3F6
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.
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Storage:	-80 °C
Storage. Storage Comment:	-80 °C Store at -80°C.