

Datasheet for ABIN7554287 KCNQ2 Protein (AA 1-872) (His tag)



Go to Product page

\sim						
()	11/	er	۰\/I		۱۸/	
\cup	v	CI	V I	C	VV	

Quantity:	1 mg
Target:	KCNQ2
Protein Characteristics:	AA 1-872
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This KCNQ2 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat KCNQ2 Protein expressed in mammalien cells.
Sequence:	MVQKSRNGGV YPGPSGEKKL KVGFVGLDPG APDSTRDGAL LIAGSEAPKR GSILSKPRAG
	GAGAGKPPKR NAFYRKLQNF LYNVLERPRG WAFIYHAYVF LLVFSCLVLS VFSTIKEYEK
	SSEGALYILE IVTIVVFGVE YFVRIWAAGC CCRYRGWRGR LKFARKPFCV IDIMVLIASI
	AVLAAGSQGN VFATSALRSL RFLQILRMIR MDRRGGTWKL LGSVVYAHSK ELVTAWYIGF
	LCLILASFLV YLAEKGENDH FDTYADALWW GLITLTTIGY GDKYPQTWNG RLLAATFTLI
	GVSFFALPAG ILGSGFALKV QEQHRQKHFE KRRNPAAGLI QSAWRFYATN LSRTDLHSTW
	QYYERTVTVP MYSSQTQTYG ASRLIPPLNQ LELLRNLKSK SGLAFRKDPP PEPSPSKGSP
	CRGPLCGCCP GRSSQKVSLK DRVFSSPRGV AAKGKGSPQA QTVRRSPSAD QSLEDSPSKV
	PKSWSFGDRS RARQAFRIKG AASRQNSEEA SLPGEDIVDD KSCPCEFVTE DLTPGLKVSI
	RAVCVMRFLV SKRKFKESLR PYDVMDVIEQ YSAGHLDMLS RIKSLQSRVD QIVGRGPAIT
	DKDRTKGPAE AELPEDPSMM GRLGKVEKQV LSMEKKLDFL VNIYMQRMGI PPTETEAYFG

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 1/3 | Product datasheet for ABIN7554287 | 03/08/2025 | Copyright antibodies-online. All rights reserved.

	AKEPEPAPPY HSPEDSREHV DRHGCIVKIV RSSSSTGQKN FSAPPAAPPV QCPPSTSWQP
	QSHPRQGHGT SPVGDHGSLV RIPPPPAHER SLSAYGGGNR ASMEFLRQED TPGCRPPEGN
	LRDSDTSISI PSVDHEELER SFSGFSISQS KENLDALNSC YAAVAPCAKV RPYIAEGESD
	TDSDLCTPCG PPPRSATGEG PFGDVGWAGP RK 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:	KCNQ2
Alternative Name:	KCNQ2 (KCNQ2 Products)
Background:	Potassium voltage-gated channel subfamily KQT member 2 (KQT-like 2) (Neuroblastoma-
	specific potassium channel subunit alpha KvLQT2) (Voltage-gated potassium channel subunit
	Kv7.2),FUNCTION: Associates with KCNQ3 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 excitability of neurons as well as the responsiveness to synaptic inputs. Therefore, it

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 2/3 | Product datasheet for ABIN7554287 | 03/08/2025 | Copyright antibodies-online. All rights reserved.

Storage: Storage Comment:	-80 °C Store at -80°C.		
Storage:	-80 °C		
Handling Advice:	Avoid repeated freeze-thaw cycles.		
Buffer:	The buffer composition is at the discretion of the manufacturer.		
Format:	Liquid		
Handling			
Restrictions:	For Research Use only		
	guarantee though.		
Application Notes:	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		
Application Details			
UniProt:	043526		
Molecular Weight:	95.8 kDa		
	ECO:0000269 PubMed:9836639}.		
	EC0:0000269 PubMed:25740509, EC0:0000269 PubMed:28793216,		
	EC0:0000269 PubMed:14534157, EC0:0000269 PubMed:17872363,		
	ECO:0000269 PubMed:11572947, ECO:0000269 PubMed:12742592,		
	and Cs(+) permeation relative to K(+) permeation. {ECO:0000269 PubMed:10684873,		
	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(+)		
	KCNQ3 channel is selectively permeable to other cations besides potassium, in decreasing order of affinity $K(u) > Dh(u) > Ca(u) > Na(u)$. Associated with Na(u) coupled must inscribe		
	activation of the muscarinic acetylcholine receptor CHRM1 (PubMed:10684873). KCNQ2-		
	M-channel, the potassium channel composed of KCNQ2 and KCNQ3 is also suppressed by		
	PubMed:11572947, PubMed:14534157, PubMed:12742592, PubMed:17872363). As the native		
	linopirdine and XE991, and activated by the anticonvulsant retigabine (PubMed:9836639,		

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 3/3 | Product datasheet for ABIN7554287 | 03/08/2025 | Copyright antibodies-online. All rights reserved.