Datasheet for ABIN7554081

HCN2 Protein (AA 1-889) (His tag)

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Overview

Quantity:	1 mg
Target:	HCN2
Protein Characteristics:	AA 1-889
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This HCN2 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Purpose:	Custom-made recombinat HCN2 Protein expressed in mammalien cells.
Sequence:	MDARGGGGRP GESPGATPAP GPPPPPPPAP PQQQPPPPPP PAPPPGPGPA PPQHPPRAEA LPPEAADEGG PRGRLRSRDS SCGRPGTPGA ASTAKGSPNG ECGRGEPQCS PAGPEGPARG PKVSFSCRGA ASGPAPGPGP AEEAGSEEAG PAGEPRGSQA SFMQRQFGAL LQPGVNKFSL RMFGSQKAVE REQERVKSAG AWIIHPYSDF RFYWDFTMLL FMVGNLIIIP VGITFFKDET TAPWIVFNVV SDTFFLMDLV LNFRTGIVIE DNTEIILDPE KIKKKYLRTW FVVDFVSSIP VDYIFLIVEK GIDSEVYKTA RALRIVRFTK ILSLLRLLRL SRLIRYIHQW EEIFHMTYDL ASAVMRICNL ISMMLLLCHW DGCLQFLVPM LQDFPRNCWV SINGMVNHSW SELYSFALFK AMSHMLCIGY GRQAPESMTD IWLTMLSMIV GATCYAMFIG HATALIQSLD SSRRQYQEKY KQVEQYMSFH KLPADFRQKI HDYYEHRYQG KMFDEDSILG ELNGPLREEI VNFNCRKLVA SMPLFANADP NFVTAMLTKL KFEVFQPGDY IIREGTIGKK MYFIQHGVVS VLTKGNKEMK LSDGSYFGEI CLLTRGRRTA SVRADTYCRL YSLSVDNFNE VLEEYPMMRR AFETVAIDRL DRIGKKNSIL

Product Details

	LHKVQHDLNS GVFNNQENAI IQEIVKYDRE MVQQAELGQR VGLFPPPPPP PQVTSAIATL QQAAAMSFCP QVARPLVGPL ALGSPRLVRR PPPGPAPAAA SPGPPPPASP PGAPASPRAP RTSPYGGLPA APLAGPALPA RRLSRASRPL SASQPSLPHG APGPAASTRP ASSSTPRLGP TPAARAAAPS PDRRDSASPG AAGGLDPQDS ARSRLSSNL **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:	HCN2
Alternative Name:	HCN2 (HCN2 Products)
Background:	Potassium/sodium hyperpolarization-activated cyclic nucleotide-gated channel 2 (Brain cyclic nucleotide-gated channel 2) (BCNG-2),FUNCTION: Hyperpolarization-activated ion channel exhibiting weak selectivity for potassium over sodium ions. Contributes to the native pacemaker currents in heart (If) and in neurons (Ih). Can also transport ammonium in the distal nephron. Produces a large instantaneous current. Modulated by intracellular chloride ions and pH , acidic pH shifts the activation to more negative voltages (By similarity).

Target Details

	{ECO:0000250, ECO:0000269|PubMed:10228147, ECO:0000269|PubMed:10524219}.
Molecular Weight:	97.0 kDa
UniProt:	Q9UL51

Application Details

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 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