

Datasheet for ABIN7562653
HCN1 Protein (AA 1-910) (His tag)



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Overview

Quantity:	1 mg
Target:	HCN1
Protein Characteristics:	AA 1-910
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This HCN1 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat Hcn1 Protein expressed in mammalian cells.
Sequence:	<p>MEGGGKPNLSA SNSRDDGNSV FPSKAPATGP VAADKRLGTP PGGAAGKEH GNSVCFKVDG</p> <p>GGGEEPAGSF EDAEGPRRQY GFMQRQFTSM LQPGVNFSL RMFGSQKAVE KEQERVKTAG</p> <p>FWIIHPYSDF RFYWDLIMLI MMVGNLVIIP VGITFFTEQT TTPWIIFNVA SDTVFLDLI</p> <p>MNFRTGTVNE DSSEILDPK VIKMNYLKS FVVDFISSIP VDYIFLIVEK GMDSEVYKTA</p> <p>RALRIVRFTK ILSLLRLLRL SRLIRYIHQW EEIFHMTYDL ASAVVRIFNL IGMMLLLCHW</p> <p>DGCLQLVPL LQDFPPDCWV SLNEMVND SW GKQYSYALFK AMSHMLCIGY GAQAPVMSMD</p> <p>LWITMLSMIV GATCYAMFVG HATALIQSLD SSRRQYQEKY KQVEQYMSFH KLPADMRQKI</p> <p>HDYYEHRYQG KIFDEENILS ELNDPLREEI VNFNCRKLVA TMPLFANADP NFVTAMLSKL</p> <p>RFEVFQPGDY IIREGAVGKK MYFIQHG VAG VITKSSKEMK LTDGSYFGEI CLLTKGRRTA</p> <p>SVRADTYCRL YLSVDNFNE VLEEYPMRMR AFETVAIDRL DRIGKKN SIL LQKFQKDLNT</p> <p>GVFNNQENEI LKQIVKHDRE MVQAIPPIN Y PQMTALNCTS STTTPTSRMR TQSPPVYTAT</p>

SLSHSNLHSP SPSTQTPQPS AILSPCSYTT AVCSPPIQSP LATRTFHYAS PTASQLSLMQ
QPQQQLPQSQ VQQTQTQTQQ QQQQQQQQQQ QQQQQQQQQQ QQQQQQQQQQ QQQQQPQTPG
SSTPKNEVHK STQALHNTNL TKEVRPLSAS QPSLPHEVST LISRPHTVG ESLASIPQPV
AAVHSTGLQA GSRSTVPQRV TLFRQMSSGA IPPNRGVPPA PPPPAAVQRE SPSVLNTDPD
AEKPRFASNL **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 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, Western Blot

Grade:

custom-made

Target Details

Target:

HCN1

Alternative Name:

Hcn1 ([HCN1 Products](#))

Background:

Potassium/sodium hyperpolarization-activated cyclic nucleotide-gated channel 1 (Brain cyclic nucleotide-gated channel 1) (BCNG-1) (Hyperpolarization-activated cation channel 2) (HAC-2),FUNCTION: Hyperpolarization-activated ion channel exhibiting weak selectivity for potassium over sodium ions. Contributes to the native pacemaker currents in heart (lh) and in neurons (lh). May mediate responses to sour stimuli. {ECO:0000269|PubMed:11459060, ECO:0000269|PubMed:11675786, ECO:0000269|PubMed:12034718,

Target Details

	ECO:0000269 PubMed:22006928, ECO:0000269 PubMed:9630217}.
Molecular Weight:	102.4 kDa
UniProt:	O88704
Pathways:	Asymmetric Protein Localization

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