

Datasheet for ABIN7554085
HCN1 Protein (AA 1-890) (His tag)



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Overview

Quantity:	1 mg
Target:	HCN1
Protein Characteristics:	AA 1-890
Origin:	Human
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>MEGGGKPNSS SNSRDDGNSV FPAKASATGA GPAAAEKRLG TPPGGGGAGA KEHGNSVCFK</p> <p>VDGGGGGGGG GGGGEEPAGG FEDAEGRPRQ YGFMQRQFTS MLQPGVNFKS LRMFGSQKAV</p> <p>EKEQERVKTA GFWIIHPYSD FRFYWDLIML IMMVGNLVII PVGITFFTEQ TTPWIIIFNV</p> <p>ASDTVFLDL IMNFRTGTVN EDSSEILDV KVIKMNYLKS WFWVDFISSI PVDYIFLIVE</p> <p>KGMDSEVYKT ARALRIVRFT KILSLLRLLR LSRLIRYIHQ WEEIFHMTYD LASAVVRIFN</p> <p>LIGMMLLLCH WDGCLQFLVP LLQDFPPDCW VSLNEMVNDS WKGQYSYALF KAMSHMLCIG</p> <p>YGAQAPVSMS DLWITMLSMI VGATCYAMFV GHATALIQLS DSSRRQYQEK YKQVEQYMSF</p> <p>HKLPADMRQK IHDYYEHRYQ GKIFDEENIL NELNDPLREE IVNFNCRKLV ATMP LFANAD</p> <p>PNFVTAMLSK LRFEVFQPGD YIREGAVGK KMYFIQHGVA GVITKSSKEM KLTGGSYFGE</p> <p>ICLLTKGRRT ASVRADTYCR LYSLSDNFDN EVLEEYPMMR RAFETVAIDR LDRIGKKNIS</p> <p>LLQKFQKDLN TGVFNNQENE ILKQIVKHDR EMVQAIAPIN YPQM TTLNST SSTTTPTSRM</p>

RTQSPPVYTA TSLSHSNLHS PSPSTQTPQP SAILSPCSYT TAVCSPPVQS PLAARTFHYA
SPTASQLSLM QQQPQQQVQQ SQPPQTQPQQ PSPQPQTPGS STPKNEVHKS TQALHNTNLT
REVRPLSASQ PSLPHEVSTL ISRPHTVGE SLASIPQVPT AVPGTGLQAG GRSTVPQRV
LFRQMSSGAI PPNRGVPPAP PPPAAALPRE SSSVLNTDPD 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),FUNCTION: Hyperpolarization-activated ion channel exhibiting weak selectivity for potassium over sodium ions (PubMed:28086084). Contributes to the native pacemaker currents in heart (lf) and in neurons (lh). May mediate responses to sour stimuli. {ECO:0000269|PubMed:15351778, ECO:0000269|PubMed:28086084, ECO:0000269|PubMed:29936235, ECO:0000269|PubMed:30351409}.

Target Details

Molecular Weight:	98.8 kDa
UniProt:	O60741
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