

Datasheet for ABIN7554071

HCN4 Protein (AA 1-1203) (His tag)



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Overview

Quantity:	1 mg
Target:	HCN4
Protein Characteristics:	AA 1-1203
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This HCN4 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat HCN4 Protein expressed in mammalian cells.
Sequence:	MDKLPPSMRK RLYSLPQQVG AKAWIMDEEE DAE EEGAGGR QDPSRRSIRL RPLPSPSPSA AAGGTESRSS ALGAADSEGP ARGAGKSSTN GDCRRFRGSL ASLGSRRGGGSGGTGSGSSHG HLHDSAEERR LIAEGDASPG EDRTPPGLAA EPERPGASAPPAASPPPPQPPQPASASCE QPSVDTAIVK EGGAAAGDQI LPEAEVRLGQ AGFMQRQFGA MLQPGVKNKFS LRMFGSQKAV EREQERVKSA GFWIIHPYSD FRFYWDLTML LLMVGNLIII PVGITFFKDE NTPPWIVFNV VSDTFFLIDL VLNFRGTIVV EDNTEILDP QRIKMKYLKS WFMVDFISSI PVDYIFLIVE TRIDSEVYKT ARALRIVRFT KILLSRLRLR LSRLIRYIHQ WEEIFHMTYD LASAVVRIVN LIGMMLLLCH WDGCLQFLVP MLQDFPDDCW VSINNVMVNS WGKQYSYALF KAMSHMLCIG YGRQAPVGMS DVWLTMLSMI VGATCYAMFI GHATALIQLS DSSRRQYQEK YKQVEQYMSF HKLPPDTRQR IHDYYEHRYQ GKMFDDEESIL GELSEPLREE IINFNCRKLV ASMP LFANAD PNFVTSMLTK LRFEVFQPGD YIREGTIGK KMYFIQHGTV SVLTKGNKET KLDGSGYFGE ICLLTRGRRT

ASVRADTYCR LYSLSVDNFN EVLEEYPMMR RAFETVALDR LDRIGKKNSI LLHKVQHDNLN
SGVFNYQENE IIQQIVQHDR EMAHCAHRVQ AAASATPTPT PVIWTPLIQA PLQAAAATTS
VAIALTHHPR LPAAIFRPPP GSGLGNLGAG QTPRHLKRLQ SLIPSALGSA SPASSPSQVD
TPSSSFHIQ QLAGFSAPAG LSPLLSSSS SPPPGACGSP SAPTPSAGVA ATTIAGFGHF
HKALGGSLS SDSPLLTPLQ PGARSPQAAQ PSPAPPGARG GLGLPEHFLP PPPSSRSPSS
SPGQLGQPPG ELSLGLATGP LSTPETPPRQ PEPPSLVAGA SGGASPVGFT PRGGLSPPGH
SPGPPRTFPS APPRASGSHG SLLLPPASSP PPPQVPQRRG TPPLTPGRLT QDLKLISASQ
PALPQDGAQT LRRASPHSSG ESMAAFPLFP RAGGGSGGSG SSGGLGPPGR PYGAIPGQHV
TLPRKTSSGS LPPPLSLFGA RATSSGGPPL TAGPQREPGA RPEPVRSKLP SNL **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.
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Purity:	> 90 % as determined by Bis-Tris Page, Western Blot
Grade:	custom-made

Target Details

Target:	HCN4
Alternative Name:	HCN4 (HCN4 Products)
Background:	Potassium/sodium hyperpolarization-activated cyclic nucleotide-gated channel 4,FUNCTION:

Target Details

Hyperpolarization-activated ion channel with very slow activation and inactivation exhibiting weak selectivity for potassium over sodium ions. Contributes to the native pacemaker currents in heart (If) that regulate the rhythm of heart beat. May contribute to the native pacemaker currents in neurons (Ih). May mediate responses to sour stimuli.

{ECO:0000269|PubMed:10228147, ECO:0000269|PubMed:10430953, ECO:0000269|PubMed:16407510, ECO:0000269|PubMed:19165230, ECO:0000269|PubMed:20829353}.

Molecular Weight: 129.0 kDa

UniProt: [Q9Y3Q4](#)

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