

Product Information

MemDX™ Membrane Protein Human HCN4 (Hyperpolarization activated cyclic nucleotide gated potassium channel 4) Full Length

Cat. No.: **MPC0576K**

This product is for research use only and is not intended for diagnostic use.

This product is a 129 kDa Human HCN4 membrane protein expressed in HEK293. The protein is for research use only and is not approved for use in humans or in clinical diagnosis.

Product Specifications

Host Species

Human

Target Protein

HCN4

Protein Length

Full length

Protein Class

Transporter; Ion channel

Molecular Weight

129 kDa

TMD

6

Sequence

MDKLPPSMRKRLYSLPQQVGAKAWIMDEEEDAEEEGAGGRQDPSRRSIRL
RPLPSPSPSAAAGGTESRSSALGAADSEGPARGAGKSSTNGDCRRFRGSL
ASLGSRRGGSGGTGSGSSHGHLHDSAEERRLIAEGDASPGEDRTPPGLAA
EPERPGASQAAPASPPPPQPPQPASASCEQPSVDTAIKVEGGAAAGDQI
LPEAEVRLGQAGFMQRQFGAMLQPGVNFSLRMFGSQKAVEREQERVKSA
GFWIIHPYSDFRFYWDLTMLLLMVGNLIIPVGITFFKDENTTPWIVFNV
VSDTFFLIDLVLNFRGTGIVVEDNTEIILDPQRIKMKYLKSWFMVDFISSI
PVDYIFLIVETRIDSEVYKTARALRIVRFTKILSLLRLLRLSLIRYIHQ
WEEIFHMTYDLASAVVRIVNLIGMMLLLCHWDGCLQFLVPMQLQDFPDDCW
VSINNMVNNSWGKQYSYALFKAMSHMLCIGYGRQAPVGMSDVWLTMLSMI
VGATCYAMFIGHATALIQSLDSSRRQYQEKYKQVEQYMSFHKLPDTRQR
IHDYYEHRYQGKMFDEESILGELSEPLREEIINFNCRKLVASMP LFANAD
PNFVTSMLTKLRFEVFPQGDYIIREGTIGKKMYFIQHGVVSVLTKGNKET
KLADGSYFGEICLLTRGRRTASVRADTYCRLYSLSVDNFNEVLEEYPMMR
RAFETVALDRLDRIGKKN SILLHKVQHD LNSGVFN YQENEIIQQIVQHDR
EMAHCAHRVQAAASATPTPTPIWTP LIQAPLQAAAATT SVAIALTHHPR
LPAAIFRPPPGSGLGNL GAGQTPRHLKRLQSLIP SALGSASPASSPSQVD
TPSSSSFHIQQLAGFSAPAGLSPLL PSSSSSPPPGACGSPSAPT PSAGVA
ATTIAGFGHFHKALGGSLSSSDSPLLTPLQPGARSPQAAQSPAPPGARG

GLGLPEHFLPPPPSSRSPSSSPGQLGQPPGELSLGLATGPLSTPETPPRQ
PEPPSLVAGASGGASPVGFTPRGGLSPPGHSPGPPRTFPSAPPRASGSHG
SLLLPPASSPPPPQVPQRRGTPPLTPGRLTQDLKLISASQPALPQDGAQT
LRRASPHSSGESMAAFPLFPRAGGGSGSGSSGGLGPPGRPYGAIPGQHV
TLPRKTSSGSLPPPLSLFGARATSSGGPPLTAGPQREPGARPEPVRSLP
SNL

Product Description

Expression Systems

HEK293

Tag

Based on specific requirements

Protein Format

Detergent or based on specific requirements

Form

Liquid

Storage

Aliquot and store at -20°C or lower. For long term storage, we recommend to store at -70°C or lower. Avoid freeze/thaw cycles.

Target

Target Protein

HCN4

Full Name

Hyperpolarization activated cyclic nucleotide gated potassium channel 4

Introduction

This gene encodes a member of the hyperpolarization-activated cyclic nucleotide-gated potassium channels. The encoded protein shows slow kinetics of activation and inactivation, and is necessary for the cardiac pacemaking process. This channel may also mediate responses to sour stimuli. Mutations in this gene have been linked to sick sinus syndrome 2, also known as atrial fibrillation with bradyarrhythmia or familial sinus bradycardia. Two pseudogenes have been identified on chromosome 15.

Alternative Names

SSS2; potassium/sodium hyperpolarization-activated cyclic nucleotide-gated channel 4; hyperpolarization activated cyclic nucleotide-gated cation channel 4; HCN4; Hyperpolarization activated cyclic nucleotide gated potassium channel 4

Gene ID

[10021](#)

UniProt ID

[Q9Y3Q4](#)