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Product Information

MemDX™ Membrane Protein Human KCNA4 (Potassium voltage-gated channel subfamily A member 4) Full Length

Cat. No.: **MPC0580K**
This product is for research use only and is not intended for diagnostic use.

This product is a 73.2 kDa Human KCNA4 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
KCNA4

Protein Length
Full length

Protein Class
Transporter; Ion channel

Molecular Weight
73.2 kDa

TMD
6

Sequence
MEVAMVSAESSGCNSHMPYGYAAQARARERERLAHSRAAAAAAVAAATAA
VEGSGGSGGGSHHHHQSRGACTSHDPQSSRGSRRRRRQRSEKKKAHYRQS
SFPHCSDLMPSGSEEKILRELSEEEEDEEEEEEEEEGRFYYSEDDHGDE
CSYTDLLPQDEGGGGYSSVRYSDCCERVVINVSGLRFETQMKTLAQFPET
LLGDPEKRTQYFDPLRNEYFFDRNRPSFDAILYYYQSGGRLKRPVNVPFD
IFTEEVKFYQLGEEALLKFREDEGFVREEEDRALPENEFKKQIWLLFEYP
ESSSPARGIAIVSVLVILISIVIFCLETLPEFRDDRDLVMALSAGGHGGL
LNDTSAPHLENSGHTIFNDPFFIVETVCIVWFSFEFVVRCFACPSQALFF
KNIMNIIDIVSILPYFITLGTDLAQQQGGGNGQQQQAMSFAILRIIRLVR
VFRIFKLSRHSKGLQILGHTLRASMRELGLLIFFLFIGVILFSSAVYFAE
ADEPTTHFQSIPDAFWWAVVTMTTVGYGDMKPITVGGKIVGSLCAIAGVL
TIALPVPVIVSNFNYFYHRETENEEQTQLTQNAVSCPYLPSNLLKKFRSS
TSSSLGDKSEYLEMEEGVKESLCAKEEKCQGKGDDSETDKNNCSNAKAVE
TDV

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

KCNA4

Full Name

Potassium voltage-gated channel subfamily A member 4

Introduction

Potassium channels represent the most complex class of voltage-gated ion channels from both functional and structural standpoints. Their diverse functions include regulating neurotransmitter release, heart rate, insulin secretion, neuronal excitability, epithelial electrolyte transport, smooth muscle contraction, and cell volume. Four sequence-related potassium channel genes - shaker, shaw, shab, and shal - have been identified in Drosophila, and each has been shown to have human homolog(s). This gene encodes a member of the potassium channel, voltage-gated, shaker-related subfamily. This member contains six membrane-spanning domains with a shaker-type repeat in the fourth segment. It belongs to the A-type potassium current class, the members of which may be important in the regulation of the fast repolarizing phase of action potentials in heart and thus may influence the duration of cardiac action potential.

Alternative Names

HK1; HBK4; PCN2; HPCN2; HUKII; KCNA8; KV1.4; KCNA4L; MCIDDS; potassium voltage-gated channel subfamily A member 4; cardiac potassium channel; fetal skeletal muscle potassium channel; potassium channel 2; potassium channel, voltage gated shaker related subfamily A, member 4; rapidly inactivating potassium channel; shaker-related potassium channel Kv1.4
type A potassium channel; voltage-gated K(+) channel HuKII; voltage-gated potassium channel HBK4; voltage-gated potassium channel HK1; voltage-gated potassium channel subunit Kv1.4; KCNA4; Potassium voltage-gated channel subfamily A member 4

Gene ID

3739

UniProt ID

P22459