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Product Information

MemDX™ Membrane Protein Human KCND3 (Potassium voltage-gated channel subfamily D member 3) Full Length

Cat. No.: **MPC0593K**
This product is for research use only and is not intended for diagnostic use.

This product is a 73.4 kDa Human KCND3 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
KCND3

Protein Length
Full length

Protein Class
Transporter; Ion channel

Molecular Weight
73.4 kDa

TMD
6

Sequence
MAAGVAAWLPFARAAAIGWMPVANCPMPLAPADKNKRQDELIVLNVSGRR
FQTWRTTLERYPDTLLGSTEKEFFFNEDTKEYFFDRDPEVFRCVLNFYRT
GKLHYPRYECISAYDDELAFYGILPEIIGDCCYEEYKDRKRENAERLMDD
NDSENNQESMPSLSFRQTMWRAFENPHTSTLALVFYYVTGFFIAVSVITN
VVETVPCGTVPGSKELPCGERYSVAFFCLDTACVMIFTVEYLLRLFAAPS
RYRFIRSVMSIIDVVAIMPYYIGLVMTNNEDVSGAFVTLRVFRVFRIFKF
SRHSQGLRILGYTLKSCASELGFLLFSLTMAIIIFATVMFYAEKGSSASK
FTSIPASFWYTIVTMTTLGYGDMVPKTIAGKIFGSICSLSGVLVIALPVP
VIVSNFSRIYHQNQRADKRRAQKKARLARIRVAKTGSSNAYLHSKRNGLL
NEALELTGTPEEEHMGKTTSLIESQHHHLLHCLEKTTGLSYLVDDPLLSV
RTSTIKNHEFIDEQMFEQNCMESSMQNYPSTRSPSLSSHPGLTTTCCSRR
SKKTTHLPNSNLPATRLRSMQELSTIHIQGSEQPSLTTSRSSLNLKADDG
LRPNCKTSQITTAIISIPTPPALTPEGESRPPPASPGPNTNIPSIASNVV
KVSAL

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

KCND3

Full Name

Potassium voltage-gated channel subfamily D member 3

Introduction

Voltage-gated potassium (Kv) 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, shal-related subfamily, members of which form voltage-activated A-type potassium ion channels and are prominent in the repolarization phase of the action potential. This member includes two isoforms with different sizes, which are encoded by alternatively spliced transcript variants of this gene.

Alternative Names

KV4.3; SCA19; SCA22; BRGDA9; KCND3L; KCND3S; KSHIVB; potassium voltage-gated channel subfamily D member 3; potassium channel, voltage gated Shal related subfamily D, member 3; potassium ionic channel Kv4.3; potassium voltage-gated channel long; potassium voltage-gated channel, Shal-related subfamily, member 3; sha1-related potassium channel Kv4.3; voltage-gated K+ channel; voltage-gated potassium channel subunit Kv4.3; KCND3; Potassium voltage-gated channel subfamily D member 3

Gene ID

3752

UniProt ID

Q9UK17