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Product Information

MemDX™ Membrane Protein Human KCND2 (Potassium voltage-gated channel subfamily D member 2) Full Length

Cat. No.: **MPC0592K**
This product is for research use only and is not intended for diagnostic use.

This product is a 70.5 kDa Human KCND2 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
KCND2

Protein Length
Full length

Protein Class
Transporter; Ion channel

Molecular Weight
70.5 kDa

TMD
6

Sequence
MAAGVAAWLPFARAAAIGWMPVASGPMPAPPRQERKRTQDALIVLNVSGT
RFQTWQDTLERYPDTLLGSSERDFFYHPETQQYFFDRDPDIFRHILNFYR
TGKLHYPRHECISAYDEELAFFGLIPEIIGDCCYEEYKDRRRENAERLQD
DADTDTAGESALPTMTARQRVWRAFENPHTSTMALVFYYVTGFFIAVSVI
ANVVETVPCGSSPGHIKELPCGERYAVAFFCLDTACVMIFTVEYLLRLAA
APSRYRFVRSVMSIIDVVAILPYYIGLVMTDNEDVSGAFVTLRVFRVFRI
FKFSRHSQGLRILGYTLKSCASELGFLLFSLTMAIIIFATVMFYAEKGSS
ASKFTSIPAAFWYTIVTMTTLGYGDMVPKTIAGKIFGSICSLSGVLVIAL
PVPVIVSNFSRIYHQNQRADKRRAQKKARLARIRAAKSGSANAYMQSKRN
GLLSNQLQSSEDEQAFVSKSGSSFETQHHHLLHCLEKTTNHEFVDEQVFE
ESCMEVATVNRPSSHSPSLSSQQGVTSTCCSRRHKKTFRIPNANVSGSHQ
GSIQELSTIQIRCVERTPLSNSRSSLNAKMEECVKLNCEQPYVTTAIISI
PTPPVTTPEGDDRPESPEYSGGNIVRVSAL

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

KCND2

Full Name

Potassium voltage-gated channel subfamily D member 2

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 mediates a rapidly inactivating, A-type outward potassium current which is not under the control of the N terminus as it is in Shaker channels.

Alternative Names

RK5; KV4.2; potassium voltage-gated channel subfamily D member 2; potassium channel, voltage gated Shal related subfamily D, member 2; voltage-gated potassium channel subunit Kv4.2; voltage-sensitive potassium channel; KCND2; Potassium voltage-gated channel subfamily D member 2

Gene ID

3751

UniProt ID

Q9NZV8