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Product Information

MemDX™ Membrane Protein Human KCNE3 (Potassium voltage-gated channel subfamily E regulatory subunit 3) Full Length

Cat. No.: **MPC0361K**
This product is for research use only and is not intended for diagnostic use.

This product is a 11.7 kDa Human KCNE3 membrane protein expressed in *E.coli*. 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
KCNE3

Protein Length
Full length

Protein Class
Transporter; Ion channel

Molecular Weight
11.7 kDa

TMD
1

Sequence
METTNGTETWYESLHAVLKALNATLHSNLLCRPGPGLGPDNQTEERRASL
PGRDDNSYMYILFVMFLFAVTVGSLILGYTRSRKVDKRSDPYHVYIKNRV
SMI

Product Description

Expression Systems
E.coli

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

KCNE3

Full Name

Potassium voltage-gated channel subfamily E regulatory subunit 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. This gene encodes a member of the potassium channel, voltage-gated, isk-related subfamily. This member is a type I membrane protein, and a beta subunit that assembles with a potassium channel alpha-subunit to modulate the gating kinetics and enhance stability of the multimeric complex. This gene is prominently expressed in the kidney. A missense mutation in this gene is associated with hypokalemic periodic paralysis.

Alternative Names

HYPP; HOKPP; MiRP2; BRGDA6; potassium voltage-gated channel subfamily E member 3; cardiac voltage-gated potassium channel accessory subunit; minK-related peptide 2; minimum potassium ion channel-related peptide 2; potassium channel subunit beta MiRP2; potassium channel, voltage gated subfamily E regulatory beta subunit 3; potassium voltage-gated channel, Isk-related family, member 3; voltage-gated K+ channel subunit MIRP2; KCNE3; Potassium voltage-gated channel subfamily E regulatory subunit 3

Gene ID

10008

UniProt ID

Q9Y6H6

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