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Product Information

MemDX™ Membrane Protein Human KCND2 (Potassium voltage-gated channel subfamily D member 2) Expressed *in vitro E.coli* expression system, Full Length

Cat. No.: **MPX2837K**
This product is for research use only and is not intended for diagnostic use.

This product is a Human KCND2 membrane protein expressed *in vitro E.coli* expression system. 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
Ion channel, Transport

TMD
6

Sequence
MAAGVAAWLPFARAAAIGWMPVASGPMPAPPRQERKRTQDALIVLNVSGTRFQTWQDTLERYPDTLLGSSERDFFYHPETQQYFI

Product Description

Expression Systems
in vitro E.coli expression system

Tag
10xHis tag at the N-terminus

Protein Format
Soluble

Form
Liquid or Lyophilized powder

Buffer

Tris/PBS-based buffer, 6% Trehalose, pH 8.0

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

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

Gene ID

3751

UniProt ID

Q9NZV8

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