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Product Information

MemDX™ Membrane Protein Human KCNV2 (Potassium voltage-gated channel modifier subfamily V member 2) Expressed *in vitro E.coli* expression system, Full Length

Cat. No.: **MPX2817K**
This product is for research use only and is not intended for diagnostic use.

This product is a Human KCNV2 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
KCNV2

Protein Length
Full Length

Protein Class
Ion channel, Transport

TMD
6

Sequence
MLKQSERRRSWSYRPWNTTENEGSQHRRSICSLGARSGSQASIHGWTEGNYNYYIEEDEDGEEEDQWKDDLAEEDQQAGEVTT

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

KCNV2

Full Name

Potassium voltage-gated channel modifier subfamily V 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. This gene encodes a member of the potassium voltage-gated channel subfamily V. This member is identified as a 'silent subunit', and it does not form homomultimers, but forms heteromultimers with several other subfamily members. Through obligatory heteromerization, it exerts a function-altering effect on other potassium channel subunits. This protein is strongly expressed in pancreas and has a weaker expression in several other tissues.

Alternative Names

KCNV2; Kv8.2; RCD3B; KV11.1; potassium channel, subfamily V, member 2; potassium channel, voltage gated modifier subfamily V, member 2; voltage-gated potassium channel subunit Kv8.2; Potassium voltage-gated channel modifier subfamily V member 2

Gene ID

169522

UniProt ID

Q8TDN2