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Product Information

MemDX™ Membrane Protein Human KCND1 (Potassium voltage-gated channel subfamily D member 1) Expressed *in vitro E.coli* expression system, Full Length

Cat. No.: **MPX2844K**
This product is for research use only and is not intended for diagnostic use.

This product is a Human KCND1 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
KCND1

Protein Length
Full Length

Protein Class
Ion channel, Transport

TMD
6

Sequence
MAAGLATWLPFARAAAVGWLPLAQQPLPPAPGVKASRGDEVLVVNVSGRRFETWKNTLDRYPDTLLGSSEKEFFYDADSGEYFF

Product Description

Expression Systems
in vitro E.coli expression system

Tag
10xHis and SUMO tag

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

KCND1

Full Name

Potassium voltage-gated channel subfamily D member 1

Introduction

This gene encodes a multipass membrane protein that comprises the pore subunit of the voltage-gated A-type potassium channel, which functions in the repolarization of membrane action potentials. Activity of voltage-gated potassium channels is important in a number of physiological processes, among them the regulation of neurotransmitter release, heart rate, insulin secretion, and smooth muscle contraction.

Alternative Names

KCND1; KV4.1; Shal-type potassium channel; potassium channel, voltage gated Shal related subfamily D, member 1; potassium voltage-gated channel, Shal-related subfamily, member 1; voltage-gated potassium channel subunit Kv4.1; Potassium voltage-gated channel subfamily D member 1

Gene ID

3750

UniProt ID

Q9NSA2