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Product Information

MemDX™ Membrane Protein Human KCNN1 (Potassium calcium-activated channel subfamily N member 1) Expressed *in vitro E.coli* expression system, Full Length

Cat. No.: **MPX2816K**
This product is for research use only and is not intended for diagnostic use.

This product is a Human KCNN1 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
KCNN1

Protein Length
Full Length

Protein Class
Ion channel, Transport

TMD
6

Sequence
MNSHSYNGSVGRPLGSGPGALGRDPPDPEAGHPPQPPHSPGLQVVVAKSEPARPSPGSPRGQPQDQDDDEDDEEDEAGRQRA

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

KCNN1

Full Name

Potassium calcium-activated channel subfamily N member 1

Introduction

Action potentials in vertebrate neurons are followed by an afterhyperpolarization (AHP) that may persist for several seconds and may have profound consequences for the firing pattern of the neuron. Each component of the AHP is kinetically distinct and is mediated by different calcium-activated potassium channels. The protein encoded by this gene is activated before membrane hyperpolarization and is thought to regulate neuronal excitability by contributing to the slow component of synaptic AHP. The encoded protein is an integral membrane protein that forms a voltage-independent calcium-activated channel with three other calmodulin-binding subunits. This gene is a member of the KCNN family of potassium channel genes.

Alternative Names

KCNN1; SK1; hSK1; SKCA1; KCa2.1; small conductance calcium-activated potassium channel protein 1; potassium channel, calcium activated intermediate/small conductance subfamily N alpha, member 1; potassium intermediate/small conductance calcium-activated channel, subfamily N, member 1; small conductance calcium-activated potassium channel 1; Potassium calcium-activated channel subfamily N member 1

Gene ID

3780

UniProt ID

Q92952