SUITE 203, 17 Ramsey Road, Shirley, NY 11967, USA
Tel: 1-631-416-1478 Fax: 1-631-207-8356
Email: info@creative-biolabs.com
www.creative-biolabs.com

Product Information

MemDX™ Membrane Protein Human KCNJ4 (Potassium inwardly rectifying channel subfamily J member 4) Expressed *in vitro E.coli* expression system, Full Length

Cat. No.: **MPX1836K**
This product is for research use only and is not intended for diagnostic use.

This product is a Human KCNJ4 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
KCNJ4

Protein Length
Full Length

Protein Class
Ion channel, Transport

TMD
2

Sequence
MHGHSRNGQAHVPRRKRRNRFVKKNGQCNVYFANLSNKSQRYMADIFTTCVDTRWRYMLMIFSAAFLVSWLFFGLLFWCIAFFHQ

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

KCNJ4

Full Name

Potassium inwardly rectifying channel subfamily J member 4

Introduction

Several different potassium channels are known to be involved with electrical signaling in the nervous system. One class is activated by depolarization whereas a second class is not. The latter are referred to as inwardly rectifying K+ channels, and they have a greater tendency to allow potassium to flow into the cell rather than out of it. This asymmetry in potassium ion conductance plays a key role in the excitability of muscle cells and neurons. The protein encoded by this gene is an integral membrane protein and member of the inward rectifier potassium channel family. The encoded protein has a small unitary conductance compared to other members of this protein family. Two transcript variants encoding the same protein have been found for this gene.

Alternative Names

KCNJ4; HIR; HRK1; IRK3; HIRK2; IRK-3; Kir2.3; inward rectifier potassium channel 4; hippocampal inward rectifier potassium channel; inward rectifier K(+) channel Kir2.3; potassium channel, inwardly rectifying subfamily J, member 4; potassium voltage-gated channel subfamily J member 4; Potassium inwardly rectifying channel subfamily J member 4

Gene ID

3761

UniProt ID

P48050

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