

# Product Information

## **MemDX™ Membrane Protein Human KCNK4 (Potassium two pore domain channel subfamily K member 4) Expressed *in vitro* E.coli expression system, Full Length**

Cat. No.: **MPX2515K**

This product is for research use only and is not intended for diagnostic use.

This product is a Human KCNK4 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

KCNK4

#### Protein Length

Full Length

#### Protein Class

Ion channel, Transport

#### TMD

4

#### Sequence

MRSTTLLALLALVLLYLVS GALVFRALEQ PHEQQAQRELGEVREKFLRAHPCVSDQELGLLIKEVADALGGGADPETNSTSNSSHS

### 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

KCNK4

#### Full Name

Potassium two pore domain channel subfamily K member 4

#### Introduction

This gene encodes a member of the TWIK-related arachidonic acid-stimulated two pore potassium channel subfamily. The encoded protein homodimerizes and functions as an outwardly rectifying channel. This channel is regulated by polyunsaturated fatty acids, temperature and mechanical deformation of the lipid membrane. This protein is expressed primarily in neural tissues and may be involved in regulating the noxious input threshold in dorsal root ganglia neurons. Alternate splicing results in multiple transcript variants. Naturally occurring read-through transcripts also exist between this gene and the downstream testis expressed 40 (TEX40) gene, as represented in GeneID: 106780802.

#### Alternative Names

KCNK4; FHEIG; TRAAK; K2p4.1; TRAAK1; potassium channel subfamily K member 4; K2P4.1 potassium channel; TWIK-related arachidonic acid-stimulated potassium channel protein; potassium channel, subfamily K, member 4; potassium channel, two pore domain subfamily K, member 4; two pore K(+) channel KT4.1; two pore K+ channel KT4.1; two pore potassium channel KT4.1; Potassium two pore domain channel subfamily K member 4

#### Gene ID

[50801](#)

#### UniProt ID

[Q9NYG8](#)