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Product Information

MemDX™ Membrane Protein Human KCNK4 (Potassium two pore domain channel subfamily K member 4) Full Length

Cat. No.: **MPC0626K**
This product is for research use only and is not intended for diagnostic use.

This product is a 42.7 kDa Human KCNK4 membrane protein expressed in Komagataella pastoris. 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
Transporter; Ion channel

Molecular Weight
42.7 kDa

TMD
4

Sequence
MRSTTLLALLALVLLYLVSGALVFRALEQPHEQQAQRELGEVREKFLRAH
PCVSDQELGLLIKEVADALGGGADPETNSTSNSSHSAWDLGSAFFFSGTI
ITTIGYGNVALRTDAGRLFCIFYALVGIPLFGILLAGVGDRLGSSLRHGI
GHIEAIFLKWHVPPELVRVLSAMLFLLIGCLLFVLTPTFVFCYMEDWSKL
EAIYFVIVTLTTVGFGDYVAGADPRQDSPAYQPLVWFWILLGLAYFASVL
TTIGNWLRVVSRRTRAEMGGLTAQAASWTGTVTARVTQRAGPAAPPPEKE
QPLLPPPPCPAQPLGRPRSPSPPEKAQPPSPPTASALDYPSENLAFIDES
SDTQSERGCPLPRAPRGRRRPNPPRKPVRPRGPGRPRDKGVPV

Product Description

Expression Systems
Komagataella pastoris

Tag

10xHis tag at the C-terminus

Protein Format

Detergent or based on specific requirements

Form

Liquid

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

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; KCNK4; Potassium two pore domain channel subfamily K member 4

Gene ID

50801

UniProt ID

Q9NYG8

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