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Product Information

MemDX™ Membrane Protein Human KCNMA1 (Potassium calcium-activated channel subfamily M alpha 1) Full Length

Cat. No.: **MPC0631K**
This product is for research use only and is not intended for diagnostic use.

This product is a 137.5 kDa Human KCNMA1 membrane protein expressed in HEK293. 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
KCNMA1

Protein Length
Full length

Protein Class
Transporter; Ion channel

Molecular Weight
137.5 kDa

TMD
7

Sequence
MANGGGGGGSSGGGGGGGGSSLRMSSNIHANHLSLDASSSSSSSSSSS
SSSSSSSSSVHEPKMDALIIPVTMEVPCDSRGQRMWWAFLASSMVTFFG
GLFIILLWRTLKYLWTVCCHCGGKTKEAQKINNGSSQADGTLKPVDEKEE
AVAAEVGWMTSVKDWAGVMISAQTLTGRVLVVLVFALSIGALVIYFIDSS
NPIESCQNFYKDFTLQIDMAFNVFFLLYFGLRFIAANDKLWFWLEVNSVV
DFFTVPPVFVSVYLNRSWLGLRFLRALRLIQFSEILQFLNILKTSNSIKL
VNLLSIFISTWLTAAGFIHLVENSGDPWENFQNNQALTYWECVYLLMVTM
STVGYGDVYAKTTLGRLFMVFFILGGLAMFASYVPEIIELIGNRKKYGGS
YSAVSGRKHIVVCGHITLESVSNFLKDFLHKDRDDVNVEIVFLHNISPNL
ELEALFKRHFTQVEFYQGSVLNPHDLARVKIESADACLILANKYCADPDA
EDASNIMRVISIKNYHPKIRIITQMLQYHNKAHLLNIPSWNWKEGDDAIC
LAELKLGFIAQSCLAQGLSTMLANLFSMRSFIKIEEDTWQKYYLEGVSNE
MYTEYLSSAFVGLSFPTVCELCFVKLKLLMIAIEYKSANRESRILINPGN
HLKIQEGTLGFFIASDAKEVKRAFFYCKACHDDITDPKRIKKCGCKRPKM
SIYKRMRRACCFDCGRSERDCSCMSGRVRGNVDTLERAFPLSSVSVNDCS
TSFRAFEDEQPSTLSPKKKQRNGGMRNSPNTSPKLMRHDPLLIPGNDQID
NMDSNVKKYDSTGMFHWCAPKEIEKVILTRSEAAMTVLSGHVVVCIFGDV
SSALIGLRNLVMPLRASNFHYHELKHIVFVGSIEYLKREWETLHNFPKVS
ILPGTPLSRADLRAVNINLCDMCVILSANQNNIDDTSLQDKECILASLNI

KSMQFDDSIGVLQANSQGFTPPGMDRSSPDNSPVHGMLRQPSITTGVNIP
IITELVNDTNVQFLDQDDDDDPDTELYLTQPFACGTAFAVSVLDSLMSAT
YFNDNILTLIRTLVTGGATPELEALIAEENALRGGYSTPQTLANRDRCRV
AQLALLDGPFADLGDGGCYGDLFCKALKTYNMLCFGIYRLRDAHLSTPSQ
CTKRYVITNPPYEFELVPTDLIFCLMQFDHNAGQSRASLSHSSHSSQSSS
KKSSSVHSIPSTANRQNRPKSRESRDKQKYVQEERL

Product Description

Expression Systems

HEK293

Tag

1D4 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

KCNMA1

Full Name

Potassium calcium-activated channel subfamily M alpha 1

Introduction

MaxiK channels are large conductance, voltage and calcium-sensitive potassium channels which are fundamental to the control of smooth muscle tone and neuronal excitability. MaxiK channels can be formed by 2 subunits: the pore-forming alpha subunit, which is the product of this gene, and the modulatory beta subunit. Intracellular calcium regulates the physical association between the alpha and beta subunits. Alternatively spliced transcript variants encoding different isoforms have been identified.

Alternative Names

SLO; BKTM; SLO1; hSlo; IEG16; LIWAS; MaxiK; PNKD3; SAKCA; mSLO1; CADEDS; KCa1.1; SLO-ALPHA; bA205K10.1; calcium-activated potassium channel subunit alpha-1; uncharacterized protein LOC3778; BK channel alpha subunit; BKCA alpha subunit; big potassium channel alpha subunit; calcium-activated potassium channel, subfamily M subunit alpha-1; k(VCA)alpha; maxi-K channel HSLO; potassium channel, calcium activated large conductance subfamily M alpha, member 1; potassium large conductance calcium-activated channel, subfamily M, alpha member 1; slo homolog; slowpoke homolog; stretch-activated Kca channel; KCNMA1; Potassium calcium-activated channel subfamily M alpha 1

Gene ID

3778

UniProt ID

Q12791