

Product Information

MemDX™ Membrane Protein Human KCNU1 (Potassium calcium-activated channel subfamily U member 1) Full Length

Cat. No.: **MPC1003K**

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

This product is a 129.5 kDa Human KCNU1 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

KCNU1

Protein Length

Full length

Protein Class

Transporter; Ion channel

Molecular Weight

129.5 kDa

TMD

6

Sequence

MFQTKLRNETWEDLPKMSCTTEIQAAFILSSSVTFFSGLIILLIFRLIWR
SVKKWQIIKGTGIILELFTSGTIARSHVRSLSHFQGGQFRDHIEMLLSAQTF
VGQVLVILVFLSIGSLIYFINSADPVGSCSSYEDKTIPIDLVFNAFFS
FYFGLRFMAADDKIKFWLEMNSIVDIFTIPPTFISYYLKSNNWLGLRFLRA
LRLLELPQILQILRAIKTSNSVKFSKLLSIILSTWFTAAGFIHLVENS
PWLKGRNSQNIYSFYESIYLMATTSTVGFGDVVAKTSLGRFTFIMFFTLGS
LILFANYIPEMVELFANKRKYTSSYEALKGKKFIVVCGNITVDSVTAFLR
NFLRDKSGEINTEIVFLGETPPSLELETIFKCYLAYTTFISGSAMKWEDL
RRVAVESAEACLIANPLCSDSHAEDISNIMRVLSIKNYDSTTRIIQIL
QSHNKVYLPKIPSWNWDGDNIIICFAELKLGFIAGGCLVPGLCTFLTSLF
VEQNKKVMPKQTWKKHFLNSMKNKILTQRLSDDFAGMSFPEVARLCFLKM
HLLLIAIEYKSLFTDGFGLILNPPPQVRIRKNTLGFFIAETPKDVRRAL
FYCSVCHDDVFIPELITNCGCKSRSRQHITVPSVKRMKKCLKGISSRISG
QDSPPRVSASTSSISNFTTRTLQHDVEQDSDQLDSSGMFWCKPTSLDKV
TLKRTGKSKYKFRNHIVACVFGDAHSAPMGLRNFMPLRASNYTRKELKD
IVFIGSLDYLRQEWFLWNFPQIYILPGCALYSGDLHAANIEQCSMCAVL
SPPPQPSSNQTLVDTEAIMATLTIGSLQIDSSSDPSPSVSEETPGYTNGH
NEKSNCRKVPI TELKNPSNIHFIEQLGGLEGLQETNLHLSTAFSTGT
V FSGSFLDSLLATAFYNYHVLELLQMLVTGGVSSQLEQLDKDKVYGVADS

CTSLLSGRNRCKLGLLSLHETILSDVNPRNTFGQLFCGSLDLFGILCVGL
YRIIDEEELNPENKRFVITRANEFKLLPSDLVFCAIPFSTACYKRNEEF
SLQKSYEIVNKASQTTETHSDTNCPTIDSVTETLYSPVYSYQPRTNSLS
FPKQIAWNQSRTNSIISSQIPLGDNAKERKTSDEVYDEDPFAYSEPL

Product Description

Expression Systems

HEK293

Tag

Based on specific requirements

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

KCNU1

Full Name

Potassium calcium-activated channel subfamily U member 1

Introduction

This gene encodes a member of the potassium channel family of proteins. The encoded voltage-gated ion channel allows the outward flow of potassium ions during plasma membrane hyperpolarization in sperm. Opening of this channel may be regulated by calcium ion levels. Homozygous knockout mice that lack the related mouse gene exhibit male sterility. Alternative splicing results in multiple transcript variants.

Alternative Names

KCNU1; KCa5; Slo3; KCNMC1; KCa5.1; Kcnma3; potassium channel subfamily U member 1; Calcium-activated potassium channel subunit alpha-3; Calcium-activated potassium channel, subfamily M subunit alpha-3; Slowpoke homolog 3; potassium channel, subfamily U, member 1; Potassium calcium-activated channel subfamily U member 1

Gene ID

[157855](#)

UniProt ID

[A8MYU2](#)