

Product Information

MemDX™ Membrane Protein Human KCNH7 (Potassium voltage-gated channel subfamily H member 7) Full Length

Cat. No.: **MPC0600K**

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

This product is a 135 kDa Human KCNH7 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

KCNH7

Protein Length

Full length

Protein Class

Transporter; Ion channel

Molecular Weight

135 kDa

TMD

6

Sequence

MPVRRGHVAPQNTFLGTIIRKFEGQNKKFIANARVQNCAIYCNDGFCE
MTGFSRPDVMQKPCTCDFLHGPETKRHDIAQIAQALLGSEERKVEVTTYH
KNGSTFICNTHIIPVKNQEGVAMMFIIINFEYVTDNENAATPERVNPILPI
KTVNRKFFGFKFPGRLVLTyrKQSLPQEDPDVVVIDSSKHSDDSVAMKHF
KSPTKESCSPEADDTKALIQPSKCSPLVNISGPLDHSSPKRQWDRLYPD
MLQSSSQLSHSRSRESLCSIRRASSVHDIEGFGVHPKNIFRDRHASEDNG
RNVKGPFNHIKSSLLGSTSDSNLNKYSTINKIPQLTLNFSEVKTEKKNSS
PPSSDKTIIAPKVKDRTHNVTEKVTQVLSLGADVLPEYKLQTPRINKFTI
LHYSFPKAVWDWLILLVIYTAIFTPYSA AFLNDREEQKRRECGYSCSP
LNVVDLIVDIMFIIDILINFRTTYVNQNEEVVSDPAKIAIH YFKGWFLID
MVA AIPFDLLIFGSGSDETTTLIGLLKTARLLRLVRVARKLDRYSEYGAA
VLM LLMCIFA LIAHWLACI WYAIGNVERPYLTDKIGWLD SLGQQIGKRYN
DSDSSSGPSIKDKYVTALYFTFSSLTSGFGNVSPNTNSEKIFSICVMLI
GSLMYASIFGNVSAIQRLYSGTARYHMQMLRVKEFIRFHQIPNPLRQRL
EEYFQHA WTYTNGIDMNMVLKGFPECLQADICLHLNQTLLQNCKAFRGAS
KGCLRALAMKFKTTHAPPGDTLVHCGDVL T ALYFLSRGSIEILKDDIVVA
ILGKNDIFGEMVHLYAKPGKSNADVRALTYCDLHKIQREDLLEVLD MYPE
FSDHFLT NLELTFNL RHESAKADLLRSQSMNDSEGDNCKLRRRKLSFESE
GEKENSTNDPEDSADTIRHYQSSKRHFEEKSRSSSFISSIDDEQKPLFS

GIVDSSPGIGKASGLDFEETVPTSGRMHIDKRSHSCKDITDMRSWERENA
HPQPEDSSPSALQRAAWGISETESDLTYGEVEQRLDLLQEQLNRLESQMT
TDIQTILQLLQKQTTVPPAYSMVTAGSEYQRPIQLMRTSQPEASIKTD
RSFSPSSQCPEFLDLEKSKLKSKESSLSSGVHLNTASEDNLTSLKQDSDL
SLELHLRQRKTYVHPHPSLPDSSLSTVGIVGLHRHVSDPGLPGK

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

KCNH7

Full Name

Potassium voltage-gated channel subfamily H member 7

Introduction

Voltage-gated potassium (Kv) channels represent the most complex class of voltage-gated ion channels from both functional and structural standpoints. Their diverse functions include regulating neurotransmitter release, heart rate, insulin secretion, neuronal excitability, epithelial electrolyte transport, smooth muscle contraction, and cell volume. This gene encodes a member of the potassium channel, voltage-gated, subfamily H. This member is a pore-forming (alpha) subunit. There are at least two alternatively spliced transcript variants derived from this gene and encoding distinct isoforms.

Alternative Names

ERG3; HERG3; Kv11.3; potassium voltage-gated channel subfamily H member 7; ERG-3; eag-related protein 3; ether-a-go-go-related gene potassium channel 3; ether-a-go-go-related protein 3; potassium channel subunit HERG-3; potassium channel, voltage gated eag related subfamily H, member 7; voltage-gated potassium channel subunit Kv11.3; KCNH7; Potassium voltage-gated channel subfamily H member 7

Gene ID

[90134](#)

UniProt ID

[Q9NS40](#)