

Product Information

MemDX™ Membrane Protein Human KCNH4 (Potassium voltage-gated channel subfamily H member 4) Full Length

Cat. No.: **MPC0597K**

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

This product is a 111.6 kDa Human KCNH4 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

KCNH4

Protein Length

Full length

Protein Class

Transporter; Ion channel

Molecular Weight

111.6 kDa

TMD

6

Sequence

MPVMKGLLAPQNTFLDTIATRFDGTHSNFLLANAQGTRGFPIVYCSDGFC
ELTGYGRTEVMQKTCSCRFLYGPETSEPALQRLHKALEGHQEHRAEICFY
RKDGSAFWCLLDMMPIKNEMGEVVLFLFSFKDITQSGSPGLGPQGGRGDS
NHENSLGRRGATWKFRSARRRSRTVLHRLTGHFGRRGQGGMKANNNVFEP
KPSVPEYKVASVGGSRCLLLHYSVSKAIWDGLILLATFYVAVTPYNVCF
SGDDDTPISTRHTLVSDIAVEMLFILDILNFRTTYVSQSGQVISAPRSI
GLHYLATWFFIDLIALPFDLLYIFNITVTSLVHLLKTVRLLRLLRLLQK
LERYSQCSAVVLTLLMSVFALLAHWMACIWYVIGRREMEANDPLLWDIGW
LHELGKRLEVYPVNGSVGGPSRRSAYIAALYFTLSSLTSVGFGNVCANTD
AEKIFSICTMLIGALMHAVVFGNVTAIQRMYSRRSLYHSRMKDLKDFIR
VHRLPRPLKQRMLEYFQTTWAVNSGIDANELLRDFPDELRIAMHLNRE
ILQLPLFGAASRGCLRALSLHIKTSFCAPGEYLLRRGDALQAHYYVCSGS
LEVLRDNMVLAILGKGLIGADIPEPGQEPGLGADPNFVLKTSADVKALT
YCGLQQLSSRGLAEVRLRYPEYGAAFRAGLPRDLTFNLRQGS DTSGLSRF
SRSPRLSQPRSESLGSSSDKTLPSITAESEAEPGGGPRPRRPLLLPNLS
PARPRGSLVSLGELPPFSALVSSPSLSPSLPALAGQGHSASPHGPPR
CSAAWKPPQLLIPPLGTFGPPDLSPRIVDGIEDSGSTAEAPSFRFSRRPE
LPRPRSQAPPTGTRPSELAEEVKEKVCRLNQEISRLNQEVSQLSRE
LRHIMGLLQARLGPPGHPAGSAWTPDPPCPQLRPPCLSPCASRPPPSLQD

TTLAEVHCPASVGTMETGTALLDLRPSILPPYPSEPDP LGPSPVPEASPP
TPSLLRHSFQSRSDTFH

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

KCNH4

Full Name

Potassium voltage-gated channel subfamily H member 4

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. The gene is brain-specific, and located in the neocortex and the striatum. It may be involved in cellular excitability of restricted neurons in the central nervous system.

Alternative Names

BEC2; ELK1; Kv12.3; potassium voltage-gated channel subfamily H member 4; ELK channel 1; brain-specific eag-like channel 2; ether-a-go-go K(+) channel family member; ether-a-go-go-like potassium channel 1; potassium channel, voltage gated eag related subfamily H, member 4; potassium voltage-gated channel, subfamily H (eag-related), member 4; voltage-gated potassium channel subunit Kv12.3; KCNH4; Potassium voltage-gated channel subfamily H member 4

Gene ID

[23415](#)

UniProt ID

[Q9UQ05](#)