

Product Information

MemDX™ Membrane Protein Human KCNK10 (Potassium two pore domain channel subfamily K member 10) Full Length

Cat. No.: **MPC0617K**

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

This product is a 59.7 kDa Human KCNK10 membrane protein expressed in Baculovirus/Insect expression system. 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

KCNK10

Protein Length

Full length

Protein Class

Transporter; Ion channel

Molecular Weight

59.7 kDa

TMD

4

Sequence

MFFLYTDFFLSLVAVPAAAPVCQPKSATNGQPPAPAPTPTPRLSISSRAT
VVARMEGTSQGGQLQTMKWKTVAIFVVVVVYLVTGGLVFRALEQPFESS
QKNTIALEKAEFLRDHVCVSPQELETLIQHALLDADNAGVSPIGNSSNNSS
HWDLGSAFFFAAGTVITTIGYGNIAPSTEGGKIFCILYAIFGIPLFGFLLA
GIGDQLGTIFGKSIARVEKVFRKKQVSQTKIRVISTILFILAGCIVFVTI
PAVIFKYIEGWTALESIFYVVVTLTTVGFGDFVAGGNAGINYREWYKPLV
WFWILVGLAYFAAVLSMIGDWLRVLSKKTKEEVGEIKAHAEEWKANVTAE
FRETRRRRLSVEIHDKLQRAATIRSMERRRLGLDQRAHSLDMLSPEKRSVF
AALDTGRFKASSQESINNRPNNRLKGPQLNKHGQGASEDNIINKFGST
SRLTKRKNKDLKKTLPEDVQKIYKTFRNYSLDEEKKEEETKMCNSDNSS
TAMLTDCIQQHAELENGMIPTDTKDREPENNSLLEDNRN

Product Description

Expression Systems

Baculovirus/Insect expression system

Tag

10xHis and Flag 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**

KCNK10

Full Name

Potassium two pore domain channel subfamily K member 10

Introduction

The protein encoded by this gene belongs to the family of potassium channel proteins containing two pore-forming P domains. This channel is an open rectifier which primarily passes outward current under physiological K⁺ concentrations, and is stimulated strongly by arachidonic acid and to a lesser degree by membrane stretching, intracellular acidification, and general anaesthetics. Several alternatively spliced transcript variants encoding different isoforms have been identified for this gene.

Alternative Names

TREK2; TREK-2; K2p10.1; PPP1R97; potassium channel subfamily K member 10; 2P domain potassium channel TREK2; TREK-2 K(+) channel subunit; TWIK-related K⁺ channel 2; outward rectifying potassium channel protein TREK-2; potassium channel TREK-2; potassium channel, subfamily K, member 10; potassium channel, two pore domain subfamily K, member 10; protein phosphatase 1, regulatory subunit 97; KCNK10; Potassium two pore domain channel subfamily K member 10

Gene ID

[54207](#)

UniProt ID

[P57789](#)