

Product Information

MemDX™ Membrane Protein Human KCND1 (Potassium voltage-gated channel subfamily D member 1) Full Length

Cat. No.: MPC0591K

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

This product is a 71.3 kDa Human KCND1 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

KCND1

Protein Length

Full length

Protein Class

Transporter; Ion channel

Molecular Weight

71.3 kDa

TMD

6

Sequence

MAAGLATWLPFARAAAVGWLPLAQQPLPPAPGVKASRGDEVLVVNVSGRR FETWKNTLDRYPDTLLGSSEKEFFYDADSGEYFFDRDPDMFRHVLNFYRT GRLHCPRQECIQAFDEELAFYGLVPELVGDCCLEEYRDRKKENAERLAED EEAEQAGDGPALPAGSSLRQRLWRAFENPHTSTAALVFYYVTGFFIAVSV IANVVETIPCRGSARRSSREQPCGERFPQAFFCMDTACVLIFTGEYLLRL FAAPSRCRFLRSVMSLIDVVAILPYYIGLLVPKNDDVSGAFVTLRVFRVF RIFKFSRHSQGLRILGYTLKSCASELGFLLFSLTMAIIIFATVMFYAEKG TNKTNFTSIPAAFWYTIVTMTTLGYGDMVPSTIAGKIFGSICSLSGVLVI ALPVPVIVSNFSRIYHQNQRADKRRAQQKVRLARIRLAKSGTTNAFLQYK QNGGLEDSGSGEEQALCVRNRSAFEQQHHHLLHCLEKTTCHEFTDELTFS EALGAVSPGGRTSRSTSVSSQPVGPGSLLSSCCPRRAKRRAIRLANSTAS VSRGSMQELDMLAGLRRSHAPQSRSSLNAKPHDSLDLNCDSRDFVAAIIS IPTPPANTPDESQPSSPGGGGRAGSTLRNSSLGTPCLFPETVKISSL

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

KCND1

Full Name

Potassium voltage-gated channel subfamily D member 1

Introduction

This gene encodes a multipass membrane protein that comprises the pore subunit of the voltage-gated A-type potassium channel, which functions in the repolarization of membrane action potentials. Activity of voltage-gated potassium channels is important in a number of physiological processes, among them the regulation of neurotransmitter release, heart rate, insulin secretion, and smooth muscle contraction.

Alternative Names

KV4.1; Shal-type potassium channel; potassium channel, voltage gated Shal related subfamily D, member 1; potassium voltage-gated channel subfamily, member 1; voltage-gated potassium channel subfamily D member 1; KCND1; Potassium voltage-gated channel subfamily D member 1

Gene ID

3750

UniProt ID

Q9NSA2