

Product Information

MemDX™ Membrane Protein Human KCNT1 (Potassium sodium-activated channel subfamily T member 1) Full Length

Cat. No.: **MPC0643K**

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

This product is a 138.3 kDa Human KCNT1 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

KCNT1

Protein Length

Full length

Protein Class

Transporter; Ion channel

Molecular Weight

138.3 kDa

TMD

6

Sequence

MARAKLPRSPSEGKAGPGGAPAGAAPEEPHGLSPLLPARGGGSVGSDVG
QRLPVEDFSLDSSLSQVQVEFYVNENTFKERLKLFFIKNQRSSLRIRLFN
FSLKLLTCLLYIVRVLLDDPALGIGCWGCPKQNYSFNDSSSEINWAPILW
VERKMTLWAIQVIVAIISFLETMLLIYLSYKGNIEWEQIFRVSVFLEMINT
LPFIITIFWPPLRNLFIPIVFLNCWLAKHALENMINDFHRAILRTQSAMFN
QVLILFCTLLCLVFTGTGCGIQHLERAGENLSLLTSFYFCIVTFSTVGYGD
VTPKIWPSQLLVIMICVALVVLPLQFEELVYLWMERQKSGGNYSRHRAQ
TEKHVVLCVSSLKIDLLMDFLNEFYAHPRLQDYYVVILCPTMDVQVRRV
LQIPLWSQRVIYLQGSALKDQDLMRAKMDNGEACFILSSRNEVDRTAADH
QTILRAWAVKDFAPNCPLYVQILKPENKFHVKFADHVVCSECKYAMLAL
NCICPATSTLITLLVHTSRGQEGQESPEQWQRMYGRCSGNEVYHIRMGDS
KFFREYEGKSFTYAFAHAKKYGVCLIGLKREDNKSILLNPGPRHILAAS
DTCFYINITKEENSAFIFKQEEKRKKRAFSGQGLHEGPARLPVHSIIASM
GTVAMD LQGTEHRPTQSGGGGGGSKLALPTENGSGSRPSIAPVLELADS
SALLPCDLLSDQSEDEVTPSDDEGLSVVEYVKGYPNSPYIGSSPTLCHL
LPVKAPFCCLRLDKGCKHNSYEDAKAYGFKNKLIIVSAETAGNGLYNFIV
PLRAYYRSRKELNPVILLLDNKPDDHFFLEAICCFPMVYYMEGSVDNLDL
LQCGIYADNLVVVDKESTMSAEEDYMADAKTIVNVQTMFRLFPSLSITT
ELTHPSNMRFMQFRAKDSYSLALSLEKREKRENGSNLAFMFRLPFAAGR

FSISMLDTLLYQS FVKDYMITITRLLLGLDTPGSGYLCAMKITEGDLWI
RTYGRL FQKLCSSSAEIPIGIYRTESHVFSTSESQISVNVEDCEDTREV K
GPWGSRAGTGGSSQGRHTGGGDP AEHP LLRRKSLQWARRLSRKAPKQAGR
AAAAEWISQQRLSLYRRSERQELSELVKNRMKHLGLPTTGYEDVANLTAS
DVMNRVNLGYLQDEMNDHQNTLSYVLINPPDPTRLEPSDIVYLIRSDPLA
HVA SSSQSRKSSCSHKLSSCNPETRDETQL

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

KCNT1

Full Name

Potassium sodium-activated channel subfamily T member 1

Introduction

Potassium 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 sodium-activated potassium channel subunit which is thought to function in ion conductance and developmental signaling pathways. Mutations in this gene cause the early-onset epileptic disorders, malignant migrating partial seizures of infancy and autosomal dominant nocturnal frontal lobe epilepsy. Alternative splicing results in multiple transcript variants.

Alternative Names

DEE14; ENFL5; SLACK; EIEE14; KCa4.1; Slo2.2; bA100C15.2; potassium channel subfamily T member 1; Sequence like a calcium-activated K⁺ channel; potassium channel, sodium activated subfamily T, member 1; potassium channel, subfamily T, member 1; KCNT1; Potassium sodium-activated channel subfamily T member 1

Gene ID

[57582](#)

UniProt ID

[Q5JUK3](#)