

Product Information

MemDX™ Membrane Protein Human TRPM5 (Transient receptor potential cation channel subfamily M member 5) Full Length

Cat. No.: **MPC0966K**

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

This product is a 131.4 kDa Human TRPM5 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

TRPM5

Protein Length

Full length

Protein Class

Transporter; Ion channel

Molecular Weight

131.4 kDa

TMD

6

Sequence

MQDVQGPRPGSPGDAEDRRELGLHRGEVNFGGSGKKRGKFVRVPSGVAPS
VLFDLLLAEWHLPPAPNLVSVLGEEQPFAMKSWLRDVLRKGLVKAQSTG
AWILTSALRVGLARHVQAVRDHSLASTSTKVRVVAVGMAASLGRVLHRRI
LEEAQEDFPVHYPEDDGGSQGPLCSLDSNLSHFLVEPGPPGKGDGTEL
RLRLEKHISEQRAGYGGTGSIEIPVLCLLVNGDPNTLERISRAVEQAAPW
LILVGSGGIADVLAALVNQPHLLVPKVAEKQFKEKFPSKHFSDIVRWT
KLLQNITSHQHLLTVYDFEQEGSEELDTVILKALVKACKSHSQEPQDYLD
ELKLAVAWDRVDAIKSEIFNGDVEWKSCDLEEVMDALVSNKPEFVRLFV
DNGADVADFLTYGRLQELYRSVSRKSLLFDLLQRKQEEARLTLAGLGTQQ
AREPPAGPPAFPSLHEVSRLVKDFLQDACPGRFYQDGRPGDRRAEKGPAKR
PTGQKWLLDLNQKSENTPWRDQLFLWAQLQNRHEMATYFWAMGQEGVAAALA
ACKILKEMSHLETEAAARATREAKYERLALDLFSECYSNSEARAFALLV
RRNRCWSKTTCLHLATEADAKAFFAHGVQAFLTRIWWGDMAAGTPILRL
LGAFLCPALVYTNLITFSEEAPLRTGLEDLQDLDSDLTEKSPLYGLQSRV
EELVEAPRAQGDRGPRAVFLTRWRKFWGAPVTVFLGNVVMYFAFLFLFT
YVLLVDFRPPPQGPGSGPEVTLYFWVFTLVLEEIRQGFFTDEDTHLVKKFT
LYVGDNWNKCDMVAIFLIVGVTCRMLPSAFEAGRTVLAMDFMVFTLRLI
HIFAIHKQLGPKIIVVERMMKDVFVFFLFFLSVWLVAYGVTQALLHPHDG
RLEWIFRRVLYRPYLQIFGQIPLDEIDEARVNCSTHPLLEDSPSCPSLY

ANWLVILLVTFLVTNVLLMNLLIAMFSYTFQVVQGNADMFWKFQRYNL
IVEYHERPALAPPFILLSHLSLTLLRRVFKEAEHKREHLERDLPDPLDQK
VVTWETVQKENFLSKMEKRRRDSEGEVLRKTAHRVDFAIKYLGGLREQEK
RIKCLESQINYCSVLVSSVADVLAQGGGPRSSQHCGEQLVAADHRGGL
DGWEQPGAGQPPSDT

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 -72°C or lower. Avoid freeze/thaw cycles.

Target

Target Protein

TRPM5

Full Name

Transient receptor potential cation channel subfamily M member 5

Introduction

This gene encodes a member of the transient receptor potential (TRP) protein family, which is a diverse group of proteins with structural features typical of ion channels. This protein plays an important role in taste transduction, and has characteristics of a calcium-activated, non-selective cation channel that carries Na⁺, K⁺, and Cs⁺ ions equally well, but not Ca(2+) ions. It is activated by lower concentrations of intracellular Ca(2+), and inhibited by higher concentrations. It is also a highly temperature-sensitive, heat activated channel showing a steep increase of inward currents at temperatures between 15 and 35 degrees Celsius. This gene is located within the Beckwith-Wiedemann syndrome critical region-1 on chromosome 11p15.5, and has been shown to be imprinted, with exclusive expression from the paternal allele.

Alternative Names

MTR1; LTRPC5; MLSN1 and TRP-related; MLSN1- and TRP-related gene 1 protein; long transient receptor potential channel 5; TRPM5; Transient receptor potential cation channel subfamily M member 5

Gene ID

[29850](#)

UniProt ID

[Q9NZQ8](#)