

Product Information

MemDX™ Membrane Protein Human TRPV1 (Transient receptor potential cation channel subfamily V member 1) Full Length

Cat. No.: **MPC0970K**

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

This product is a 94.9 kDa Human TRPV1 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

TRPV1

Protein Length

Full length

Protein Class

Transporter; Ion channel

Molecular Weight

94.9 kDa

TMD

6

Sequence

MKKWSSTDLGAAADPLQKDTCPDPLDGPNSRPPPAKPQLSTAKSRTLRF
GKGDSEEAFFVDCPHEEGELDSCPTITVSPVITIQRPDGP TGARLLSQD
SVAASTEKTLRLYDRRSIFEAVAQNNCQDLESLLLFLQKSKKHLTDNEFK
DPETGKTCLLKAMNLHDGQNTTIPLLEIARQTDSLKELVNASYTDSYY
KGQTALHIAIERRNMALVTLLVENGADVQAAAHGDFFKTKGRPGFYFGE
LPLSLAACTNQLGIVKFLQNSWQTADISARDSVGN TVLHALVEVADNTA
DNTKFVTSMYNEILMLGAKLHPTLKLEELTNKKGMTPLALAAAGTGKIGVL
AYILQREIQEPECRLSRKFTTEWAYGPVHSSLYDLSCIDTCEKNSVLEVI
AYSSSETPNRHDMLLVEPLNRLLQDKWDRFVKRIFYFNFLVYCLYMIIFT
MAAYYRPVDGLPPFKMEKTGDYFRVTGEILSVLGGVYFFFRGIQYFLQRR
PSMKTFLVDSYSEMLFFLQSLFMLATVVLYFSHLKEYVASMVFSLALGWT
NMLYYTRGFQQMGIYAVMIEKMILRDLCRFMFVYIVFLFGFSTAVVTIE
DGKNDSLPSESTSHRWGPACRPPDSSYNSLYSTCLELFKFTIGMGDLEF
TENYDFKAVFIILLAYVILTYILLNMLIALMGETVNKIAQESKNIWKL
QRAITILDTEKSFLKCMRKAFRSGKLLQVGYPDGKDDYRWCFRVDEVNW
TTWNTNVGIINEDPGNCEGVKRTLFSLSRSSRVSGRHWKNFALVPLLREA
SARDRQSAQPEEVYLRQFSGSLKPDAEVFKSPAASGEK

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

TRPV1

Full Name

Transient receptor potential cation channel subfamily V member 1

Introduction

Capsaicin, the main pungent ingredient in hot chili peppers, elicits a sensation of burning pain by selectively activating sensory neurons that convey information about noxious stimuli to the central nervous system. The protein encoded by this gene is a receptor for capsaicin and is a non-selective cation channel that is structurally related to members of the TRP family of ion channels. This receptor is also activated by increases in temperature in the noxious range, suggesting that it functions as a transducer of painful thermal stimuli in vivo. Four transcript variants encoding the same protein, but with different 5' UTR sequence, have been described for this gene.

Alternative Names

VR1; transient receptor potential cation channel subfamily V member 1; OTRPC1; capsaicin receptor; osm-9-like TRP channel 1; transient receptor potential vanilloid 1a; transient receptor potential vanilloid 1b; vanilloid receptor subtype 1; TRPV1; Transient receptor potential cation channel subfamily V member 1

Gene ID

[7442](#)

UniProt ID

[Q8NER1](#)