

Product Information

MemDX™ Membrane Protein Human ITPR3 (Inositol 1,4,5-trisphosphate receptor type 3)

Full Length

Cat. No.: **MPC1044K**

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

This product is a 304.1 kDa Human ITPR3 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

ITPR3

Protein Length

Full length

Protein Class

Transporter; Ion channel

Molecular Weight

304.1 kDa

TMD

6

Sequence

MSEMSSFLHIGDIVSLYAEGSVNGFISTLGLVDDRCVVEPAAGDLNPPK
KFRDCLFKVCPMNRYSAQKQYWKAKQTKQDKEKIADVLLQKLQHAAQME
QKQNDTENKKVHGDVVKYGSVIQLLHMKSNNKYLTVNKRLPALLEKNAMRV
TLDATGNEGSWLFIQPFWKLRSDNGDNVVVGDKVILNPVNAGQPLHASNYE
LSDNAGCKEVNSVNCNTSWKINLFMQFRDHLEEVKGGDVVRLFHAEQEK
FLTCD EYK GKLQVFLRTTLRQSATSATSSNALWEVEVVHHDPCRGGAGHW
NGLYRFKHLATGNYLAAEENPSYKGDASDPKAAGMGAQGRTGRRNAGEKI
KYCLVAVPHGNDIASLFELDPTTLQKTDSFVPRNSYVRLRHLCNTNWIQS
TNVPIDIEEERPIRLMLGTCPTKEDKEAFAIVSVVPSEIRDLDFANDASS
MLASAVEKLN EGFISQNDRRFVIQLLEDLVFFVSDVPNNGQNVLDIMVTK
PNRERQKLMREQNILKQVFGILKAPFREKGGEGPLVRLEELSDQKNAPYQ
HMFRLCYRVLRRHSQEDYRKNQEHIKQFGMMQSQIGYDILAEDTITALLH
NNRKILLEKHITKTEVETFVSLVRKNREPRFLDYLSLDCVSNHIAIPVTQE
LICKCVLDPKNSDILIRTELRPVKEMAQSHEYLSIEYSEEEVWLTWTDKN
NEHHEKSVRQLAQEARAGNAHDENVLSYYRYQLKLFARMCLDRQYLAIDE
ISQQLGVDLIFLCMADEMLPFDLRASFCHMLMLHVHVD RDPQELVTPVKFA
RLWTEIPTAITIKDYDSNLNASRDDKKNKFANTMEFVEDYLN NVVSEAVP
FANEENKLTFEVVS LAHNLIYFGFYSFSELLRLTRTLLGIIDCVQGPPA
MLQAYEDPGGKNVRRSIQGVGHMMSTMVLSRKQSVFSAPSLSAGASAAEP

LDRSKFEENEDIVVMETKLEILQFILNVRLDYRISYLLSVFKKEFVE
VFPMQDSGADGTAPAFDSTTANMNLDRIGEQAAMFGVGKTSSMLEVDDE
GGRMFLRLVLIHLMHDIYAPLVSGALQLLFKHFSQRQEAMHTFKQVQLLIS
AQDVENYKVIKSELDRRLTMEKSELWVDKKGSGKGEEVEAGAAKDKKER
PTDEEGFLHPPGEKSSSENYQIVKGILERLNKMGVGEQMRKKQQRLLKNM
DAHKVMLDLLQIPYDKGDAKMMELRYTHQFLQKFCAGNPGNQALLHKHL
HLFLTPGLLEAETMQHIFLNQYQLCSEISEPVLQHFVHLLATHGRHVQYL
DFLHTVIKAEKGKYVKKCQDMIMTEL TNAGDDVVVFYNDKASLAHLLDMMK
AARDGVEDHSPMLMYHISLVDLLAACAEAGKNVYTEIKCTSLPLEDVVSVV
THEDCITEVKMAYVNFVNHCYVDTEVEMKEIYTSNHIWTLFENFTLDMAR
VCSKREKRVADPTLEKYVLSVLDLTINAFSSPFSSENSTSLQTHQTIVVQ
LLQSTTRLLECPWLQQQHKGSVEACIRTLAMVAKGRAILLPMDLDAHISS
MLSSGASCAAAAQRNASSYKATTRAFFPRVTP TANQWDYKNIEKLQDIIT
ALEERLKPLVQAEISLVLDVLHWPELLFLEGSEAYQRCESGGFLSKLIQH
TKDLMESEEKLCIKVLR TLQQMLLKTKYGDRGNQLRKMLLQNYLQNRKS
TSRGDLPDPITGLDPDWSAIAATQCRLDKEGATKLVCDLITSTKNEKIF
QESIGLAIHLLDGGNTEIQKSFHNLMMSDKKSERFFKVLHDRMKRAQQET
KSTVAVNMNDLGSQPHEDREPVDPTTKGRVASFSIPGSSSRYSLGPSLRR
GHEVSERVQSSEMGTSVLIMQPILRFLQLLCENHNRLQNFLRCQNNKTN
YNLVCETLQFLDIMCGSTTGGLGLLYINEDNVGLVIQTLETLTEYCQG
PCHENQTCIVTHESNGIDIITALILNDISPLCKYRMDLVLQLKDNASKLL
LALMESRHSSENAERILISLRPQELVDVIKKAYLQEEERENSEVSPREVG
HNIYILALQLSRHNKQLQHLLKPVKRIQEEEEAEGLSSMLSLNNKQLSQML
KSSAPAEEEEEEDPLAYYENHTSQIEIVRQDRSMEQIVFPVPGICQFLTEE
TKHRLFTTTTEQDEQGSKVSDFFDQSSFLHNEMEWQRKLRSMPLIYWFSRR
MTLWGSISFNLAVFINIIIAFFYPYMEGASTGVLDSPILSLLFWILICFS
IAALFTKRYRIRPLIVALILRSIYYLGIGPTLNILGALNLTNKIVFVVSF
VGNRGTFIRGYKAMVMDMEFLYHVG YILTSVLGLFAHELFYSILLFDLIY
REETLFNVIKSVTRNGRSILLTALLALILVYLF SIVGFLFLKDDFILEVD
RLPNNHSTASPLGMPHGAAAFVDTCSGDKMDCVSGLSVPEVLEEDRELD
TERACDTLLMCIVTMNHGLRNGGGVG DILRKPSKDESLFPARVVYDLLF
FFVIVIVLNLIFGVIIDTFADLRSEKQKKEEILKTTFCICGLERDKFDN
KTVSFEEHIKLEHNMWNYLYFIVLVRVKNKTDYTGPE SYVAQMIKNKNLD
WFPRMRAMSLVSNEGEQNEIRILQDKLNSTMKLVSHLTAQLNELKEQM
TEQRKRRQRLGFVDVQNCISR

Product Description

Expression Systems

HEK293

Tag

GFP tag at N-terminal

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

ITPR3

Full Name

Inositol 1,4,5-trisphosphate receptor type 3

Introduction

This gene encodes a receptor for inositol 1,4,5-trisphosphate, a second messenger that mediates the release of intracellular calcium. The receptor contains a calcium channel at the C-terminus and the ligand-binding site at the N-terminus. Knockout studies in mice suggest that type 2 and type 3 inositol 1,4,5-trisphosphate receptors play a key role in exocrine secretion underlying energy metabolism and growth.

Alternative Names

ITPR3; IP3R; IP3R3; IP3 receptor; inositol 1,4,5-trisphosphate receptor, type 3; insP3R3; type 3 InsP3 receptor; Type 3 inositol 1,4,5-trisphosphate receptor; IP3 receptor isoform 3; InsP3R3; Inositol 1,4,5-trisphosphate receptor type 3

Gene ID

[3710](#)

UniProt ID

[Q14573](#)