Myotubularin-Related Protein 2 (MTMR2) Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	Myotubularin-related protein 2 (MTMR2), Recombinant Protein
Full Product Name	Recombinant Human Myotubularin-related protein 2 (MTMR2)
Product Gene Name	MTMR2 recombinant protein
Product Synonym Gene Name	MTMR2
Sequence	MEKSSSCESL GSQPAAARPP SVDSLSSAST SHSENSVHTK SASVVSSDSI STSADNFSPD LRVLRESNKL AEMEEPPLLP GENIKDMAKD VTYICPFTGA VRGTLTVTNY RLYFKSMERD PPFVLDASLG VINRVEKIGG ASSRGENSYG LETVCKDIRN LRFAHKPEGR TRRSIFENLM KYAFPVSNNL PLFAFEYKEV FPENGWKLYD PLLEYRRQGI PNESWRITKI NERYELCDTY PALLVVPANI PDEELKRVAS FRSRGRIPVL SWIHPESQAT ITRCSQPMVG VSGKRSKEDE KYLQAIMDSN AQSHKIFIFD ARPSVNAVAN KAKGGGYESE DAYQNAELVF LDIHNIHVMR ESLRKLKEIV YPNIEETHWL SNLESTHWLE HIKLILAGAL RIADKVESGK TSVVVHCSDG WDRTAQLTSL AMLMLDGYYR TIRGFEVLVE KEWLSFGHRF QLRVGHGDKN HADADRSPVF LQFIDCVWQM TRQFPTAFEF NEYFLITILD HLYSCLFGTF LCNSEQQRGK ENLPKRTVSL WSYINSQLED FTNPLYGSYS NHVLYPVASM RHLELWVGYY IRWNPRMKPQ EPIHNRYKEL LAKRAELQKK VEELQREISN RSTSSSERAS SPAQCVTPVQ TVV
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	65,959 Da
Sequence Positions	1-643, Full length protein
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
OMIM	601382
3D Structure	ModBase 3D Structure for Q13614
Species	Human
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for MTMR2 recombinant protein	This gene is a member of the myotubularin family. The encoded protein possesses phosphatase activity towards phosphatidylinositol-3-phosphate and phosphatidylinositol-3,5-bisphosphate. Mutations in this gene are a cause of Charcot-Marie-Tooth disease type 4B, an autosomal recessive demyelinating neuropathy. Multiple alternatively spliced transcript variants have been found for this gene.
Other Notes	Small volumes of MTMR2 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for MTMR2 purchase	MBS1422990 is a recombinant protein targeting MTMR2. Also known as Recombinant Human Myotubularin-related protein 2 (MTMR2). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for MTMR2. It may not necessarily be applicable to this product.

NCBI GI #	343790884
NCBI GeneID	8898
NCBI Accession #	NP_001230500.1
UniProt Primary Accession #	Q13614
UniProt Secondary Accession #	Q9UPS9; A6NN98
UniProt Related Accession #	Q13614
GenBank Nucleotide #	NM_001243571.1
NCBI Official Full Name	myotubularin-related protein 2 isoform 2
NCBI Official Synonym Full Names	myotubularin related protein 2
NCBI Official Symbol	MTMR2
NCBI Official Synonym Symbols	CMT4B; CMT4B1
UniProt Protein Name	Myotubularin-related protein 2
UniProt Synonym Protein Names	Phosphatidylinositol-3,5-bisphosphate 3-phosphatase (EC:3.1.3.95
Protein Family	Myotubularin-related protein
UniProt Gene Name	MTMR2
UniProt Synonym Gene Names	KIAA1073
NCBI Protein Information	myotubularin-related protein 2
NCBI Summary for MTMR2	This gene is a member of the myotubularin family of phosphoinositide lipid phosphatases. The encoded protein possesses phosphatase activity towards phosphatidylinositol-3-phosphate and phosphatidylinositol-3,5-bisphosphate. Mutations in this gene are a cause of Charcot-Marie-Tooth disease type 4B, an autosomal recessive demyelinating neuropathy. Alternatively spliced transcript variants encoding multiple isoforms have been found for this gene. [provided by RefSeq, Aug 2011]
UniProt Comments for MTMR2	Phosphatase that acts on lipids with a phosphoinositol headgroup. Has phosphatase activity towards phosphatidylinositol 3-phosphate and phosphatidylinositol 3,5-bisphosphate.
Research Articles on MTMR2	**1.** Expression of several MTMR2 isoforms ameliorates the myopathic phenotype owing to MTM1 loss, with increased muscle force, reduced myofiber atrophy, and reduction of the intracellular disorganization hallmarks associated with myotubular myopathy.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.

Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/recombinant-protein/myotubularin-related-protein-2-mtmr2/1422990