

Datasheet for ABIN7554635  
**MTM1 Protein (AA 1-603) (His tag)**



[Go to Product page](#)

## Overview

Quantity:	1 mg
Target:	MTM1
Protein Characteristics:	AA 1-603
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This MTM1 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

## Product Details

Purpose:	Custom-made recombinat MTM1 Protein expressed in mammalian cells.
Sequence:	<p>MASASTSKYN SHSLENESIK RTSRDGVNRD LTEAVPRLPG ETLITDKEVI YICPFNGPIK  GRVYITNYRL YLRSLETDSS LILDVPLGVI SRIEKMGGAT SRGENSYGLD ITCKDMRNLR  FALKQEGHSR RDMFEILTRY AFPLAHSPL FAFLNEEKFN VDGWTVYNPV EEYRRQGLPN  HHWRITFINK CYELCDTYPA LLVVPYRASD DDLRRVATFR SRNRIPVLSW IHPENKTIV  RCSQPLVGMS GKRNKDDEKY LDVIRETNKQ ISKLTIDYAR PSVNAVANKA TGGGYESDDA  YHNAELFFLD IHNIHVMRES LKKVKDIVYP NVEESHWLSS LESTHWLEHI KLVLTGAIQV  ADKVSSGKSS VLVHCSDGWD RTAQLTSLAM LMLDSFYRSI EGFEILVQKE WISFGHKFAS  RIGHGDKNHT DADRSPILQ FIDCVWQMSK QFPTAFEFNE QFLIILDHL YSCRFGTFLF  NCESARERQK VTERTVSLWS LINSNKEKFK NPFYTKINR VLYPVASMRH LELWVNYIIR  WNPRIKQQP NPVEQRYMEL LALRDEYIKR LEELQLANSA KLSDPPTSPS SPSQMMPHVQ THF</p> <p><b>Sequence without tag. The proposed Purification-Tag is based on experiences with the</b></p>

**expression system, a different complexity of the protein could make another tag necessary.**

**In case you have a special request, please contact us.**

### Characteristics:

#### Key Benefits:

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

### Purity:

> 90 % as determined by Bis-Tris Page, Western Blot

### Grade:

custom-made

## Target Details

### Target:

MTM1

### Alternative Name:

MTM1 ([MTM1 Products](#))

### Background:

Myotubularin (Phosphatidylinositol-3,5-bisphosphate 3-phosphatase) (EC 3.1.3.95) (Phosphatidylinositol-3-phosphate phosphatase) (EC 3.1.3.64), FUNCTION: Lipid phosphatase which dephosphorylates phosphatidylinositol 3-monophosphate (PI3P) and phosphatidylinositol 3,5-bisphosphate (PI(3,5)P2) (PubMed:11001925, PubMed:10900271, PubMed:12646134, PubMed:14722070). Has also been shown to dephosphorylate phosphotyrosine- and phosphoserine-containing peptides (PubMed:9537414). Negatively regulates EGFR degradation through regulation of EGFR trafficking from the late endosome to the lysosome (PubMed:14722070). Plays a role in vacuolar formation and morphology. Regulates desmin intermediate filament assembly and architecture (PubMed:21135508). Plays a role in mitochondrial morphology and positioning (PubMed:21135508). Required for skeletal muscle maintenance but not for myogenesis (PubMed:21135508). In skeletal muscles,

## Target Details

	stabilizes MTMR12 protein levels (PubMed:23818870). {ECO:0000269 PubMed:10900271, ECO:0000269 PubMed:11001925, ECO:0000269 PubMed:12646134, ECO:0000269 PubMed:14722070, ECO:0000269 PubMed:21135508, ECO:0000269 PubMed:23818870, ECO:0000269 PubMed:9537414}.
Molecular Weight:	69.9 kDa
UniProt:	<a href="#">Q13496</a>
Pathways:	<a href="#">Inositol Metabolic Process, Skeletal Muscle Fiber Development</a>

## Application Details

Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Restrictions:	For Research Use only

## Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months