

Datasheet for ABIN7565296

MTM1 Protein (AA 1-603) (His tag)



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Overview

Quantity:	1 mg
Target:	MTM1
Protein Characteristics:	AA 1-603
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This MTM1 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant Mtm1 Protein expressed in mammalian cells.
Sequence:	<p>MASASASKYN SHSLENESIK KVSQDGVSQD VSETVPRLPG ELLITEKEVI YICPFNGPIK GRVYITNYRL YLRSLETDSA LILDVPLGVI SRIEKMGGAT SRGENSYGLD ITCKDLRNLR FALKQEGHSR RDMFEILVKH AFPLAHNLPL FAFVNEEKFN VDGWTVYNPV EYRRQGLPN HHWRISFINK CYELCETYP A LLVVPYRTSD DDLRRIATFR SRNRLPVLSW IHPENKMVIM RCSQPLVGMS GKRNKDDEKY LDVIRETNKQ TSKLMIYDAR PSVNAVANKA TGGGYESDDA YQNSELSFLD IHNIHVMRES LKKVKDIVYP NIEESHWLSS LESTHWLEHI KLVLTGAIQV ADQVSSGKSS VLVHCSDGWD RTAQLTSLAM LMLDSFYRTI EGFEILVQKE WISFGHKFAS RIGHGDKNHA DADRSPILQ FIDCVWQMSK QFPTAFEFNE GFLITVLDHL YSCRFGTFLF NCDSARERQK LTERTVSLWS LINSNKDKFK NPFYTKINR VLYPVASMRH LELWVNYIIR WNPRVKQQP NPVEQRYMEL LALRDDYIKR LEELQLANSA KLDAPASTS SSSQMVPHVQ THF</p> <p>Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary.</p>

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

Specificity: If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.

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, anti-tag ELISA, Western Blot and analytical SEC (HPLC)

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). Has also been shown to dephosphorylate phosphotyrosine- and phosphoserine-containing peptides. Negatively regulates EGFR degradation through regulation of EGFR trafficking from the late endosome to the lysosome. Plays a role in vacuolar formation and morphology (By similarity). Regulates desmin intermediate filament assembly and architecture. Plays a role in mitochondrial morphology and positioning (PubMed:21135508). Required for skeletal muscle maintenance but not for myogenesis (PubMed:12391329). In skeletal muscles, stabilizes MTMR12 protein levels

Target Details

	(PubMed:23818870). {ECO:0000250 UniProtKB:Q13496, ECO:0000269 PubMed:12391329, ECO:0000269 PubMed:21135508, ECO:0000269 PubMed:23818870}.
Molecular Weight:	69.6 kDa
UniProt:	Q9Z2C5
Pathways:	Inositol Metabolic Process, Skeletal Muscle Fiber Development

Application Details

Application Notes:	We expect the protein to work for functional studies. 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