

Datasheet for ABIN7554648
MYO1E Protein (AA 1-1108) (His tag)



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Overview

Quantity:	1 mg
Target:	MYO1E
Protein Characteristics:	AA 1-1108
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This MYO1E protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant MYO1E Protein expressed in mammalian cells.
Sequence:	<p>MGSKGVYQYH WQSHNVKHSG VDDMVLLSKI TENSIVENLK KRYMDDYIFT YIGSVLISVN PFKQMPYFGE KEIEMYQGAA QYENPPHIYA LADNMYRNM I DRENQCVII SGESGAGKTV AAKYIMSYIS RVSGGGTKVQ HVKDILQSN PLLEAFGNAK TVRNNNSSRF GKYFEIQFSP GGEPDGGKIS NFLLEKSRV MRNPGERSFH IFYQLIEGAS AEQKHS LGIT SMDYYYYLSL SGSYKVDDID DRREFQETLH AMNVIGIFAE EQTLVLQIVA GILHLGNISF KEVGNAAVE SEEFLLFPAY LLGINQDRK EKLTSRQMDS KWGGKSESIH VTLNVEQACY TRDALAKALH ARVDFLVD S INKAMEKDHE EYNIGVLDIY GFEIFQKNGF EQFCINFVNE KLQQIFIELT LKAEEQEEYVQ EGIRWTPIEY FNNKIVCDLI ENKVNPPGIM SILDDVCATM HAVGEGADQT LLQLQMIG SHEHFNSWNQ GFIIHHYAGK VSYDMDGFCE RNRDVL FMDL IELMQSSELP FIKSLFPENL QADKKGRPTT AGSKIKKQAN DLVSTLMKCT PHYIRCIKPN ETKKPRDWEE SRVKHQVEYL GLKENIRVRR AGYAYRRIFQ KFLQRYAILT KATWPSWQGE EKQGV LHLLQ SVNMDSQFQ LGRSKVFIKA PESLFLLEEM RERKYDGYAR VIQKSWRKFV ARKKYVQMRE</p>

Product Details

EASDLLLNKK ERRRNSINRN FIGDYIGMEE HPELQQFVGK REKIDFADTV TKYDRRFKGV
KRDLLTPKC LYLIGREKVK QGPDKGLVKE VLKRKIEIER ILSVSLSTMQ DDIFILHEQE
YDSLLESVFK TEFLSLLAKR YEEKTQKQLP LKFSNTLELK LKKENWGPWS AGGSRQVQFH
QGFGDLAVLK PSNKVLQVSI GPGLPKNSRP TRRNTTQNTG YSSGTQNANY PVRAAPPPPG
YHQNGVIRNQ YVPYPHAPGS QRSNQKSLYT SMARPPLPRQ QSTSSDRVSQ TPESLDLFLKV
PDQGAAGVRR QTTSRPPAG GRPKPQPKPK PQVPQCKALY AYDAQDTDEL SFNANDIID
IKEDPSGWWT GRLRGKQLF PNNYVTKI **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. 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: MYO1E

Alternative Name: MYO1E ([MYO1E Products](#))

Background: Unconventional myosin-1e (Myosin-1c) (Unconventional myosin 1E),FUNCTION: Actin-based

Target Details

motor molecule with ATPase activity (PubMed:11940582, PubMed:36316095). Unconventional myosins serve in intracellular movements. Their highly divergent tails bind to membranous compartments, which are then moved relative to actin filaments. Binds to membranes containing anionic phospholipids via its tail domain. Involved in clathrin-mediated endocytosis and intracellular movement of clathrin-coated vesicles (PubMed:36316095). Required for normal morphology of the glomerular basement membrane, normal development of foot processes by kidney podocytes and normal kidney function. In dendritic cells, may control the movement of class II-containing cytoplasmic vesicles along the actin cytoskeleton by connecting them with the actin network via ARL14EP and ARL14.

{ECO:0000269|PubMed:11940582, ECO:0000269|PubMed:17257598, ECO:0000269|PubMed:20860408, ECO:0000269|PubMed:36316095}.

Molecular Weight: 127.1 kDa

UniProt: [Q12965](#)

Pathways: [Platelet-derived growth Factor Receptor Signaling](#)

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