

Datasheet for ABIN3131157  
**MYO1E Protein (AA 1-1107) (His tag)**



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1 Image

Overview

Quantity:	1 mg
Target:	MYO1E
Protein Characteristics:	AA 1-1107
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This MYO1E protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

Product Details

Sequence:	<p>MGSKGAYRYH WQSHNVKHSG VDDMVLLSKI TESSIVENLK KRYMDDYIFT YIGSVLISVN PFKQMPYFGE KEVEMYQGAA QYENPPHIYA LADSMYRNMI IDRENQCVII SGESGAGKTV AAKYIMSYVS RVSGGGPKVQ HVKDIILQSN PLLEAFGNAK TVRNNNSSRF GKYFEIQFSP GGEPDGGKIS NFLLEKSRV MRNPGERSFH IFYQLIEGAS PEKQSLGIT SMDYYYYLSL SGSYKVDDID DKRDFQETLH AMNVIGIFSE EQTLVLQIVA GILHLGNISF KEVGNAAVE SEEFLLFPAY LLGINQDRLK EKLTSRQMDS KWGGKSESIH VTLNVEQACY TRDALAKALH ARVDFDLVDS INKAMEKDHE EYNIGVLDIY GFEIFQKNGF EQFCINFVNE KLQQIFIET LKAEEQEEYVQ EGIRWTPIEY FNNKIVCDLI ESKVNPPGIM SILDDVCATM HAVGEGADQT LLQLQMQIG SHEHFNSWNQ GFIIHHYAGK VSYDMDGFCE RNRDVLFMDL IELMQSSELP FIKSLFPENL QADKKGRPTT AGSKIKKQAN DLVSTLMKCT PHYIRCIKPN ETKKPKDWEE SRVKHQVEYL GLKENIRVRR AGYAYRRVFQ KFLQRYAILT KATWPVWRGD EKQGVLLHLQ SVNMDSQDFQ LGRSKVFIKA PESLFLLEEM RERKYDGYAR VIQKTWRKFV ARKKYVQMRE</p>
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EASDLLLNKK ERRRNSINRN FIGDYIGMEE RPELQQFVGK REKIDFADTV TKYDRRFKGV  
KRDLLTPKC LYLIGREKVK QGPDKGVVKE VLKRRIEVER ILSVSLSTMQ DDIFILHEQE  
YDSLLESVFK TEFLSLLAKR YEEKTQKQLP LKFSNTLELK LKKENWGPWS AGGSRQVQFH  
QGFGDLAILK PSNKVLQVSI GGPLPKNSRP TRRNTVTSRG YPGGTKNNYP MRAAPAPPGC  
HQNGVIRNQF VPPPHAFGNQ RSNQKSLYTS MARPPLPRQQ STGSDRLSQT PESLDFLKVP  
DQGVAGVRRQ TSSRPPPAGG RPKPQPKPKP QVPQCKALYA YDAQDTDELS FNANDIIDII  
KEDPSGWWTG RLRGKQGLFP NNYVTKI

**Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a special request, please contact us.**

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### Characteristics:

- Made in Germany - from design to production - by highly experienced protein experts.
- Mouse Myo1e Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade.
- 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 will ensure that you receive a correctly folded protein.

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.

In the unlikely event that the protein cannot be expressed or purified we do not charge anything (other companies might charge you for any performed steps in the expression process for custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression experiments or purification optimization).

When you order this made-to-order protein you will only pay upon receipt of the correctly folded protein. With no financial risk on your end you can rest assured that our experienced protein experts will do everything to make sure that you receive the protein you ordered.

The concentration of our recombinant proteins is measured using the absorbance at 280nm. The protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer.

The concentration of the protein is calculated using its specific absorption coefficient. We use the Expasy's protparam tool to determine the absorption coefficient of each protein.

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### Purification:

Two step purification of proteins expressed in baculovirus infected SF9 insect cells:

1. In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate fractions are analyzed by SDS-PAGE.
2. Protein containing fractions of the best purification are subjected to second purification step

## Product Details

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through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.

Purity: >95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.

Sterility: 0.22 µm filtered

Endotoxin Level: Protein is endotoxin free.

Grade: Crystallography grade

## Target Details

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Target: MYO1E

Alternative Name: Myo1e ([MYO1E Products](#))

Background: Myosins are actin-based motor molecules with ATPase activity. 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 (By similarity). 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 (By similarity). {ECO:0000250, ECO:0000269|PubMed:19005011}.

Molecular Weight: 127.8 kDa Including tag.

UniProt: [E9Q634](#)

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

## Application Details

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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.

Comment: Protein has not been tested for activity yet. In cases in which it is highly likely that the recombinant protein with the default tag will be insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible options with you in detail to assure that you receive your protein of interest.

Restrictions: For Research Use only

## Handling

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Format:	Liquid
Buffer:	100 mM NaCl, 20 mM Hepes, 10% glycerol. pH value 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:	Unlimited (if stored properly)

## Images

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**Image 1.** „Crystallography Grade“ protein due to multi-step, protein-specific purification process