

Datasheet for ABIN7564776

**Myocardin Protein (MYOCD) (AA 1-935) (His tag)**[Go to Product page](#)

## Overview

|                               |  |
|-------------------------------|--|
| Quantity:                     | 1 mg   |
| Target:                       | Myocardin (MYOCD)                                |
| Protein Characteristics:      | AA 1-935   |
| Origin:                       | Mouse  |
| Source:                       | HEK-293 Cells                                    |
| Protein Type:                 | Recombinant                                      |
| Purification tag / Conjugate: | This Myocardin protein is labelled with His tag. |

## Product Details

|           |   |
|-----------|---|
| Purpose:  | Custom-made recombinant Myocd Protein expressed in mammalian cells.   |
| Sequence: | <p>MTLLGSEHSL LIRRKFRSVL QLRLQQRRTQ EQLANQGLIP PLKGPTEFHD PRKQLDSAQT<br/>EDSLRRKGRN RSDRASLVTM HILQASTAER SIPTAQMKLK RARLADDLNE KIALRPGPLE<br/>LVEKNILPMD SSVKEAIKGT EVSLSKAADA FAFEDDSSRD GLSPDQARSE DPQGSTGSTP<br/>DIKSTEAPLD TIQDLTPGSE SDKNDAASQP GNQSDPGKQV LGPLSTPIPV HTAVKSKSLG<br/>DSKNRHHKPK DPKPKVKKLLK YHQYIPPDQK AEKSPPMDS AYARLLQQQQ LFLQLQILSQ<br/>QQQQQQQQQQ QQQQQQQQQQ RFSYPGMHQT HLKEPNEQMA RNPNPSSSTPL SNTPLSPVKN<br/>SISGQTVGSS LKPGPLPPNL DDLKVSELRQ QLRIRGLPVS GTKTALVDRL RPFQDCAGNP<br/>VPNFGDITTV TFPVTPNTLP SYQSSPTGFY HFGSTSSSPP ISPASSDLA AGSLPDTFTD<br/>ASPGFGLHAS PVPACTDESL LSSLNGGSGP SEPDGLDSEK DKMLVEKQKV INQLTWKLRQ<br/>EQRQVEELRM QLQKQKSSCS DQKPLPFLAT TIKQEDVSSC PFAPQQASGK GQGHSSDSPP<br/>PACETAQLLP HCVESGQTH VLSSTFLSPQ CSPQHSPLGG LKSPQHISLP PSPNNHYFLA<br/>SSSGAQRENH GVSSPSSSQG CAQMTGLQSS DKVGPTFSIP SPTFSKSSSA VSDITQPPSY</p> |

## Product Details

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EDAVKQQMTR SQQMDELDDV LIESGEMPAD AREDHSCLQK IPKIPGSSCS PTAIPPKPSA  
SFEQASSGGQ MAFDHYANDS DEHLEVLLNS HSPIGKVS DV TLLKIGSEEP PFDSIMDGF  
GKAAEDLFSA HELLPGPLSP MHAQLSPPSV DSSGLQLSFT ESPWETMEWL DLTPPSSTPG  
FSNLTSSGPS IFNIDFLDVT DLNLNSPMDL HLQQW **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

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**Target:** Myocardin (MYOCD)

**Alternative Name:** Myocd ([MYOCD Products](#))

**Background:** Myocardin (Basic SAP coiled-coil transcription activator 2) (SRF cofactor protein),FUNCTION: Smooth muscle cells (SM) and cardiac muscle cells-specific transcriptional factor which uses the canonical single or multiple CArG boxes DNA sequence. Acts as a cofactor of serum response factor (SRF) with the potential to modulate SRF-target genes. Plays a crucial role in

## Target Details

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cardiogenesis, urinary bladder development, and differentiation of the smooth muscle cell lineage (myogenesis). Positively regulates the transcription of genes involved in vascular smooth muscle contraction (By similarity). {ECO:0000250|UniProtKB:Q8R5I7, ECO:0000269|PubMed:11439182, ECO:0000269|PubMed:12640126, ECO:0000269|PubMed:12663482, ECO:0000269|PubMed:16818234, ECO:0000269|PubMed:20385216, ECO:0000269|PubMed:31513549}, FUNCTION: [Isoform 1]: Positively regulates the activation of smooth muscle cell gene promoter regions. {ECO:0000269|PubMed:20385216}, FUNCTION: [Isoform 3]: Positively regulates the activation of smooth muscle cell gene promoter regions (PubMed:20385216). Activation of the MYH6 promoter is enhanced in the presence of MEF2C (PubMed:20385216). {ECO:0000269|PubMed:20385216}, FUNCTION: [Isoform 4]: Positively regulates the activation of smooth muscle cell gene promoter regions. {ECO:0000269|PubMed:20385216}, FUNCTION: [Isoform 5]: Positively regulates the activation of smooth muscle cell gene promoter regions. {ECO:0000269|PubMed:20385216}.

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Molecular Weight: 101.4 kDa

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UniProt: [Q8VIM5](#)

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Pathways: [Regulation of Muscle Cell Differentiation, Skeletal Muscle Fiber Development](#)

## Application Details

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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.

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Restrictions: For Research Use only

## Handling

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Format: Liquid

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Buffer: The buffer composition is at the discretion of the manufacturer.

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Handling Advice: Avoid repeated freeze-thaw cycles.

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Storage: -80 °C

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Storage Comment: Store at -80°C.

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Expiry Date: 12 months