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Datasheet for ABIN3093962

## MYOC Protein (AA 33-504) (His tag)

### 1 Image

#### Overview

Quantity:	1 mg
Target:	MYOC
Protein Characteristics:	AA 33-504
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This MYOC protein is labelled with His tag.
Application:	Western Blotting (WB), ELISA, SDS-PAGE (SDS), Crystallization (Crys)

#### Product Details

Sequence: RTAQLRKAND QSGRCQYTF S VASPNESSCP EQSQAMSVIH NLQRDSSTQR LDLEATKARL  
SSLESLLHQL TLDQAARPQE TQEGLQRELG TLRERDQLE TQTRELETAY SNLLRDKSVL  
EEEKRLRQE NENLARRLES SSQEVARLRR GQCPQTRDTA RAVPPGSREV STWNLDTLAF  
QELKSELTEV PASRILKESP SGYLRSGEDG TGCSELVWVG EPLTLRTAET ITGKYGVWMMR  
DPKPTYPTQ ETTWRIDTVG TDVRQVFEYD LISQFMQGY P SKVHILPRPL ESTGAVVYSG  
SLYFQGAESR TVIRYELNTE TVKAEKEIPG AGYHGFQFPYS WGGYTDIDLA VDEAGLWVIY  
STDEAKGAIV LSKLNPENLE LEQWETNIR KQSVANAFII CGTLTYVSSY TSADATVNFA  
YDTGTGISKT LTIPFKNRYK YSSMIDYNPL EKKLFAWDNL NMVTYDIKLS KM

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

Characteristics:

- Made in Germany - from design to production - by highly experienced protein experts.
- Human MYOC Protein (raised in Insect Cells) purified by multi-step, protein-specific process

## Product Details

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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: <ol style="list-style-type: none"><li>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.</li><li>2. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.</li></ol>
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:	MYOC
Alternative Name:	MYOC ( <a href="#">MYOC Products</a> )

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## Target Details

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**Background:** Secreted glycoprotein regulating the activation of different signaling pathways in adjacent cells to control different processes including cell adhesion, cell-matrix adhesion, cytoskeleton organization and cell migration. Promotes substrate adhesion, spreading and formation of focal contacts. Negatively regulates cell-matrix adhesion and stress fiber assembly through Rho protein signal transduction. Modulates the organization of actin cytoskeleton by stimulating the formation of stress fibers through interactions with components of Wnt signaling pathways. Promotes cell migration through activation of PTK2 and the downstream phosphatidylinositol 3-kinase signaling. Plays a role in bone formation and promotes osteoblast differentiation in a dose-dependent manner through mitogen-activated protein kinase signaling. Mediates myelination in the peripheral nervous system through ERBB2/ERBB3 signaling. Plays a role as a regulator of muscle hypertrophy through the components of dystrophin-associated protein complex. Involved in positive regulation of mitochondrial depolarization. Plays a role in neurite outgrowth. May participate in the obstruction of fluid outflow in the trabecular meshwork. {ECO:0000250|UniProtKB:O70624, ECO:0000269|PubMed:17516541, ECO:0000269|PubMed:17984096, ECO:0000269|PubMed:18855004, ECO:0000269|PubMed:19188438, ECO:0000269|PubMed:19959812, ECO:0000269|PubMed:21656515, ECO:0000269|PubMed:23629661, ECO:0000269|PubMed:23897819}.

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**Molecular Weight:** 54.4 kDa Including tag.

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**UniProt:** [Q99972](#)

## 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.

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**Comment:** 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.

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**Restrictions:** For Research Use only

## Handling

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**Format:** Liquid

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## Handling

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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