

Datasheet for ABIN7554608  
**MOCOS Protein (AA 1-888) (His tag)**



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## Overview

Quantity:	1 mg
Target:	MOCOS
Protein Characteristics:	AA 1-888
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This MOCOS protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

## Product Details

Purpose:	Custom-made recombinat MOCOS Protein expressed in mammalien cells.
Sequence:	MAGAAAESGR ELWTFAGSRD PSAPRLAYGY GPGSLRELRA REFSRLAGTV YLDHAGATLF SQSQLESFTS DLMENTYGNP HSQNISSKLT HDTVEQVRYR ILAHFHHTAE DYTIVFTAGS TAALKLVAEA FPWVSQGPES SGRFCYLT D SHTSVVGM RN VTMAINVIST PVRPEDLWSA EERSASASNP DCQLPHLFCY PAQSNFSGVR YPLSWIEEVK SGRLHPVSTP GKWFVLLDAA SYVSTSPDL SAHQADFVPI SFYKIFGFPT GLGALLVHNR AAPLLRKTYF GGGTASAYLA GEDFYIPRQS VAQRFEDGTI SFLDVIALKH GFDTLERLTG GMENIKQHTF TLAQTYVAL SSLQYPNGAP VVRIYSDSEF SSPEVQGPII NFNVLDDKGN IIGYSQVDKM ASLYNIHLRT GCFCNTGACQ RHLGISNEMV RKHFQAGHVC GDNMDLIDGQ PTGSVRISFG YMSTLDDVQA FLRFIIDTRL HSSGDWPVPQ AHADTGETGA PSADSQADVI PAVMGRRSLS PQEDALTGSR VWNNSSSTVNA VPVAPPVCDV ARTQPTPSEK AAGVLEGALG PHVVTNLYLY PIKSCAAFEV TRWPVGNQGL LYDRSWMVVN HNGVCLSQKQ EPRLCLIQPF IDLRQRIMVI KAKGMEPIEV

## Product Details

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PLEENSERTQ IRQSRVCADR VSTYDCGEKI SSWLSTFFGR PCHLIKQSSN SQRNAKKKHG  
KDQLPGTMAT LSLVNEAQYL LINTSSILEL HRQLNTSDEN GKEELFSLKD LSLRFRANII  
INGKRAFEED KWDEISIGSL RFQVLGPCHR CQMICIDQQT GQRNQHVFK LSESRETKVN  
FGMYLMHASL DLSSPCFLSV GSQVLPVLKE NVEGHDLPAS EKHQDVTS **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.**

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### 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.

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### Purity:

> 90 % as determined by Bis-Tris Page, Western Blot

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### Grade:

custom-made

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## Target Details

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### Target:

MOCOS

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### Alternative Name:

MOCOS ([MOCOS Products](#))

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### Background:

Molybdenum cofactor sulfurase (MCS) (MOS) (MoCo sulfurase) (hMCS) (EC 2.8.1.9) (Molybdenum cofactor sulfurtransferase),FUNCTION: Sulfurates the molybdenum cofactor. Sulfation of molybdenum is essential for xanthine dehydrogenase (XDH) and aldehyde oxidase (ADO) enzymes in which molybdenum cofactor is liganded by 1 oxygen and 1 sulfur atom in active form. In vitro, the C-terminal domain is able to reduce N-hydroxylated prodrugs, such as benzamidoxime. {ECO:0000255|HAMAP-Rule:MF\_03050, ECO:0000269|PubMed:16973608}.

## Target Details

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Molecular Weight:	98.1 kDa
UniProt:	<a href="#">Q96EN8</a>
Pathways:	<a href="#">Response to Water Deprivation, ER-Nucleus Signaling</a>

## 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.
Restrictions:	For Research Use only

## Handling

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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