

# Recombinant Full Length Human MOCS1 Protein, GST-tagged

Cat. No. MOCS1-6299HF Lot. No. (See product label)

## SPECIFICATION

|                         |   |
|-------------------------|---|
| <b>Product Overview</b> | Human MOCS1 full-length ORF ( AAI40422.1, 1 a.a. - 636 a.a.) recombinant protein with GST-tag at N-terminal.  |
| <b>Species</b>          | Human   |
| <b>Source</b>           | In Vitro Cell Free System   |
| <b>ProteinLength</b>    | 636 amino acids   |
| <b>Description</b>      | Molybdenum cofactor biosynthesis is a conserved pathway leading to the biological activation of molybdenum. The protein encoded by this gene is involved in molybdenum cofactor biosynthesis. This gene was originally thought to produce a bicistronic mRNA with the potential to produce two proteins (MOCS1A and MOCS1B) from adjacent open reading frames. However, only the first open reading frame (MOCS1A) has been found to encode a protein from the putative bicistronic mRNA. Two of the splice variants found for this gene express proteins (MOCS1A-MOCS1B) that result from a fusion between the two open reading frames. This gene is defective in patients with molybdenum cofactor deficiency, type A. [provided by RefSeq] |
| <b>Molecular Mass</b>   | 96.36 kDa   |
| <b>AA Sequence</b>      | MWKSWKLRDVRVREGAGGSPCASSQPGSRGPCFLPGLSSQEVSRRRQFLREHA<br>APFSAFLTDSFGRQHSYLRISLTEKCNLRQCQYCMPEEGVPLTPKANLLTTEEILTLAR<br>LFVKEGIDKIRLTGGEPLIRPDVVDIVAQLQRLEGLRTIGVTTNGINLARLLPQLQKAGL<br>SAINISLDTLVPKFEFIVRRKGFHKVMEGIHKAIELGYNPVKVNCVVMRGLNEDELLD  |

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FAALTEGLPLDVRFIEYMPFDGNKWNFKKMVSYKEMLDTVRQQWPELEKVPEEESS  
 TAKAFKIPGFQGGQISFITSMSSEHFCGTCNRLRITADGNLKVCLFGNSEVSLRDHLRAG  
 ASEQELLRIIGAAVGRKKRQHAGMFSISQMKNRPMILIELFLMFPNSPPANPSIFSWD  
 PLHVQGLRPRMSFSSQVATLWKGCRVPQTPPLAQQLGSGSFQRHYTSRADSDA  
 NSKCLSPGSWASAAPSGPQLTSEQLTHVDSEGRAAMVDVGRKPDTERVAVASAVV  
 LLGPVAFKLVQQNQLKKGDALVVAQLAGVQAAKVTSQLIPLCHHVALSHIQVQLELD  
 STRHAVKIQASCRARGPTGVEMEALTSAAVAALTLYDMCKAVSRDIVLEEIKLISKTG  
 GQRGDFHRA

**Applications**

Enzyme-linked Immunoabsorbent Assay  
 Western Blot (Recombinant protein)  
 Antibody Production  
 Protein Array

**Notes**

Best use within three months from the date of receipt of this protein.

**Storage**

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

**Storage Buffer**

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

## GENE INFORMATION

**Gene Name**

MOCS1 molybdenum cofactor synthesis 1 [ Homo sapiens (human) ]

**Official Symbol**

MOCS1

**Synonyms**

MOCS1; molybdenum cofactor synthesis 1; MIG11; MOCOD; MOCS1A; MOCS1B;  
 molybdenum cofactor biosynthesis protein 1; MOCS1A enzyme; cell migration-  
 inducing gene 11 protein; molybdenum cofactor biosynthesis protein A; molybdenum  
 cofactor synthesis-step 1 protein A-B; EC 4.1.99.22; EC 4.6.1.17

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|                |              |
|----------------|--------------|
| Gene ID        | 4337         |
| mRNA Refseq    | NM_001075098 |
| Protein Refseq | NP_001068566 |
| MIM            | 603707       |
| UniProt ID     | Q9NZB8       |

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