

Recombinant Full Length Human MOCOS Protein, GST-tagged

Cat. No. MOCOS-6298HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human MOCOS full-length ORF (AAH12079.1, 1 a.a. - 888 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	888 amino acids
Description	This gene encodes an enzyme that sulfurates the molybdenum cofactor which is required for activation of the xanthine dehydrogenase (XDH) and aldehyde oxidase (AO) enzymes. XDH catalyzes the conversion of hypoxanthine to uric acid via xanthine, as well as the conversion of allopurinol to oxypurinol, and pyrazinamide to 5-hydroxy pyrazinamide. Mutations in this gene cause the metabolic disorder classical xanthinuria type II which is characterized by the loss of XDH/XO and AO enzyme activity, decreased levels of uric acid in the urine, increased levels of xanthine and hypoxanthine in the serum and urine, formation of xanthine stones in the urinary tract, and myositis due to tissue deposition of xanthine. [provided by RefSeq, Apr 2017]
Molecular Mass	124.6 kDa
AA Sequence	MAGAAAESGRELWTFAGSRDPSAPRLAYGYGPGSLRELRRAREFSRLAGTVYLDHA GATLFSQSQLESFTSDLMENTYGNPHSQNISSKLTHDVEQVRYRILAHFHTTAEDY TVIFTAGSTAALKLVAEAFPWWSQGPESGSRFCYLTDSHTSVVGMRNVTMAINVISI PVRPEDLWSAEERGASASNPDCQLPHLFCYPAQSNFSGVRYPLSWIEEVKSGRLR

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PVSTPGKWFVLLDAASYVSTSPLDLSAHQADFVPISFYKIFGFPTGLGALLVHNRAAP
 LLRKTYFGGGTASAYLAGEDFYIPRQSV AQRFEDGTISFLDVIALKHGFDTLERLTGG
 MENIKQHTFTLAQYTYMALSSLQYPNGAPVVRIYSDSEFSSPEVQGPIINFVLDKKG
 NIIGYSQVDKMASLYNIHLRTGCFCNTGACQRHLGISNEMVRKHFQAGHVCGDNMD
 LIDGQPTGSVRISFGYMS TLDDVQAFLRFIIDTRLHSSGDWPVPQAHADTGETGAPS
 ADSQADVIPA VMGRRSLSPQEDALTGSRVWNN SSTVNAV PVAPPVCDVARTQPTP
 SEKAAGVLEGALGPHVVTNLYLYPIKSCAAFEVTRWPVGNQGLLYDRSWMV VNH
 GVCLSQKQEPRLCLIQPFIDLRQRIMVIKAKGMEPIEVPLEINSERTQIRQSRVCADR
 VSTYDCGEKISSWLSTFFGRPCHLIKQSSNSQRNAKKKHGKDQLPGTMATLSLVNE
 AQYLLINTSSILELHRQLNTSDENGKEELFSLKDLSLRFRANIIINGKRAFEEEKWDEIS
 IGSLRFQVLGPCHRCQM ICIDQQTGQRNQHV FQKLSESRET KVNFGMYLMHASLDL
 SSPCFLSVGSQVLPVLKENVEGHDL PASEKHQDVTS

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

MOCOS molybdenum cofactor sulfurase [Homo sapiens]

Official Symbol

MOCOS

Synonyms

MOCOS; molybdenum cofactor sulfurase; MCS; MOS; HMCS; moCo sulfurase; EC

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2.8.1.9; EC 3.4.25.1; hMCS; FLJ20733

Gene ID 55034

mRNA Refseq NM_017947

Protein Refseq NP_060417

MIM 613274

UniProt ID Q96EN8

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