Recombinant Full Length Human MOCS1 Protein, GST-tagged

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

SPECIFICATION

Product Overview	Human MOCS1 full-length ORF (AAI40422.1, 1 a.a. - 636 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	636 amino acids
Description	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
Molecular Mass	96.36 kDa
AA Sequence	MWKSWKLRTDVRVREGAGGSPCASSQPGSRGPCFLPGLSSQEVSRRRQFLREHA APFSAFLTDSFGRQHSYLRISLTEKCNLRCQYCMPEEGVPLTPKANLLTTEEILTLAR LFVKEGIDKIRLTGGEPLIRPDVVDIVAQLQRLEGLRTIGVTTNGINLARLLPQLQKAGL SAINISLDTLVPAKFEFIVRRKGFHKVMEGIHKAIELGYNPVKVNCVVMRGLNEDELLD

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	FAALTEGLPLDVRFIEYMPFDGNKWNFKKMVSYKEMLDTVRQQWPELEKVPEEESS TAKAFKIPGFQGQISFITSMSEHFCGTCNRLRITADGNLKVCLFGNSEVSLRDHLRAG ASEQELLRIIGAAVGRKKRQHAGMFSISQMKNRPMILIELFLMFPNSPPANPSIFSWD PLHVQGLRPRMSFSSQVATLWKGCRVPQTPPLAQQRLGSGSFQRHYTSRADSDA 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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