

Recombinant Human Molybdenum Cofactor Synthesis 2, His-tagged

Cat. No. MOCS2-7145H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human MOCS2 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques. MW: 25 kDa.
Species	Human
Source	E.coli
ProteinLength	1-188aa
Description	MOCS2 is a heterotetrameric synthase composed of two small (MOCS2A) and two large (MOCS2B) subunits. The large and small subunits of molybdopterin synthase are both encoded from this gene by overlapping open reading frames. MOCS2 functions in the second step of the synthesis of molybdenum cofactor or molybdopterin (MPT). It catalyzes the formation of MPT from precursor Z by incorporating a dithiolene functional group.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 50% glycerol, 1mM DTT
Molecular Mass	25 kDa (224aa) confirmed by MALDI-TOF
AA Sequence	MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSMSSL EISSSCFSLE TKLPLSPPLV EDSAFEPSRK DMDEVEEKSK DVINFTAELK SVDEVSQLVI

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SPLCGAISLF VGTTNRNFEK KKVISLEYEA YLPMAENEVR KICS DIRQKW
 PVKHIAVFHR LGLVPVSEAS IIIAVSSAHR AASLEAVSYA IDTLKAKVPI
 WKKEIYEES TWKGNKECFW ASNS

Purity >90% by SDS - PAGE

Applications SDS-PAGE

Storage Can be stored at 4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

Concentration 0.25 mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name [MOCS2 molybdenum cofactor synthesis 2 \[Homo sapiens \]](#)

Official Symbol MOCS2

Synonyms

MOCS2; molybdenum cofactor synthesis 2; molybdopterin synthase catalytic subunit; MOCO1; MOCO1-A; MOCO1-B; MPT synthase large subunit; sulfur carrier protein MOCS2A; molybdopterin-synthase large subunit; molybdopterin-synthase small subunit; molybdenum cofactor synthesis protein 2A; molybdenum cofactor synthesis protein 2B; molybdenum cofactor biosynthesis protein E; molybdopterin synthase sulfur carrier subunit; molybdenum cofactor synthesis protein 2 large subunit; molybdenum cofactor synthesis protein 2 small subunit; MPTS; MCBPE; MOCS2A; MOCS2B;

Gene ID [4338](#)

mRNA Refseq [NM_004531](#)

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Protein Refseq	NP_004522
MIM	603708
UniProt ID	O96007
Chromosome Location	5q11
Pathway	Folate biosynthesis, organism-specific biosystem; Folate biosynthesis, conserved biosystem; Metabolic pathways, organism-specific biosystem; Metabolism, organism-specific biosystem; Metabolism of vitamins and cofactors, organism-specific biosystem; Metabolism of water-soluble vitamins and cofactors, organism-specific biosystem; Molybdenum cofactor biosynthesis, organism-specific biosystem;
Function	Mo-molybdopterin synthase activity; contributes_to Mo-molybdopterin synthase activity; Mo-molybdopterin synthase activity; identical protein binding; nucleotide binding; transferase activity;

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