

# Product information



## MOCS2, 1-188aa

Human, His-tagged, Recombinant, *E.coli*

Cat. No. IBATGP1712

**Full name:** molybdenum cofactor synthesis 2

**NCBI Accession No.:** NP\_004522

**Synonyms:** MCBPE, MOCO1, MOCS2A, MOCS2B, MPTS

**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. Recombinant human MOCS2 protein, fused to His-tag at N-terminus, was expressed in *E.coli* and purified by using conventional chromatography techniques.

<p><b>Form:</b> Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 50% glycerol, 1mM DTT</p> <p><b>Molecular Weight:</b> 25 kDa (224aa) confirmed by MALDI-TOF</p> <p><b>Purity:</b> &gt; 90% by SDS - PAGE</p> <p><b>Concentration:</b> 0.25 mg/ml (determined by Bradford assay)</p>	<p>15% SDS-PAGE (3ug)</p>
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### Sequences of amino acids:

MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSMSL EISSSCFSLE TKLPLSPPLV EDSAFEPSRK DMDEVEEKSK DVINFTAELK  
SVDEVSQ LVI SPLCGAISLF VGTRNNFEG KVISLEYEA YLPMAENEVR KICSDIRQKW PVKHI AVFHR LGLVPVSEAS IIIAVSSAHR  
AASLEAVSYA IDTLKAKVPI WKKEIYEES TWKGNKECFW ASNS

### General references:

Leimkuhler S., *et al.* (2005) *Hum Genet.* 117: 565-570

Reiss J., *et al.* (1999) *Hum Genet.* 64: 706-711.

**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.

**For research use only. This product is not intended or approved for human, diagnostics or veterinary use.**



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