Recombinant Human MOCS1 protein, His & T7-tagged

Cat. No. MOCS1-7954H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human MOCS1 aa. (Met1~Leu160 (Accession # Q9NZB8)) fused with N-terminal His & T7 tag was produced in E. coli cells.
Species	Human
Source	E.coli
ProteinLength	Met1~Leu160
Description	Molybdenum cofactor biosynthesis is a conserved pathway leading to the biological activation of molybdenum. The protein encoded by this gene is involved in this pathway. 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, whereas additional splice variants, whose full-length natures have yet to be determined, are likely to produce a fusion between the two open reading frames. This gene is defective in patients with molybdenum cofactor deficiency, type A. A related pseudogene has been identified on chromosome 16.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 21.5kDa.
Endotoxin	<1.0EU per 1ug (determined by the LAL method)

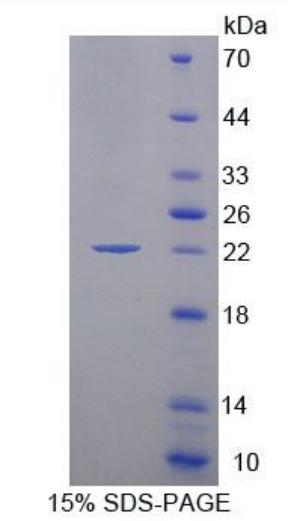
Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

Purity	>95%
Characteristic	The isoelectric point is 9.7.
Applications	SDS-PAGE; WB; ELISA; IP.
Stability	The thermal stability is described by the loss rate of the target protein. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. (Referring from China Biological Products Standard, which was calculated by the Arrhenius equation.) The loss of this protein is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Storage Buffer	Supplied as lyophilized form in 20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% sarcosyl, 5% trehalose, and preservative.
Reconstitution	Reconstitute in sterile ddH2O.

GENE INFORMATION

Gene Name	MOCS1 molybdenum cofactor synthesis 1 [Homo sapiens (human)]
Official Symbol	MOCS1
Synonyms	MOCS1; molybdenum cofactor synthesis 1; MIG11; MOCOD; MOCODA; molybdenum cofactor biosynthesis protein 1; MOCS1A enzyme; cell migration-inducing gene 11 protein; migration-inducing gene 11 protein; molybdenum cofactor biosynthesis protein A; molybdenum cofactor synthesis-step 1 protein A-B

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Gene ID	4337
mRNA Refseq	NM_001075098.3
Protein Refseq	NP_001068566.1
UniProt ID	Q9NZB8
SDS-PAGE	

15% SDS-PAGE

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