

Recombinant Human MOCOS Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. MOCOS-1205H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	MOCOS MS Standard C13 and N15-labeled recombinant protein (NP_060417) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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.
Molecular Mass	98.2 kDa
AA Sequence	MAGAAAESGRELWTFAGSRDPSAPRLAYGYGPGSLRELRLAREFSRLAGTVYLDHA GATLFSQSQLESFTSDLMENTYGNPHSQNISSKLTHDTVEQVRYRILAHFHTTAEDY TVIFTAGSTAALKLVAEAFPWVSQGPESGSRFCYLTDSHTSVVGMRNVTMAINVISI PVRPEDLWSAEERGASASNPDCQLPHLFCYPAQSNFSGVRYPLSWIEEVKSGRLR

 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

PVSTPGKWFVLLDAASYVSTSPLDLSAHQADFVPISFYKIFGFPTGLGALLVHNRAAP
 LLRKTYFGGGTASAYLAGEDFYIPRQSAQRFEEDGTISFLDVIALKHGFDTLERLTGG
 MENIKQHTFTLAQYTYMALSSLQYPNGAPVVRIYSDSEFSSPEVQGPIINFNVLDDKG
 NIIGYSQVDKMASLYNIHLRTGCFCNTGACQRHLGISNEMVRKHFQAGHVCNMD
 LIDGQPTGSVRISFGYMSTLDDVQAFLRFIDTRLHSSGDWPVPQAHADTGETGAPS
 ADSQADVIPAVMGRRSLSPQEDALTGSRVWNNSSSTVNAVVPVAPPVCDVARTQPTP
 SEKAAGVLEGALGPHVVTNLYLYPIKSAAFEVTRWPVGNQGLLYDRSWMVNVHN
 GVCLSQKQEPRLCLIQPFIDLRQRIMVIKAKGMEPIEVPLEENERTQIRQSRVCADR
 VSTYDCGEKISSWLSTFFGRPCHLIKQSSNSQRNAKKKHGKDQLPGTMATLSLVNE
 AQYLLINTSSILELHRQLNTSDENGKEELFSLKDLSLRFRANIIINGKRAFEEEKWDEIS
 IGLSRFQVLGPCHRCQMIDQQTGQRNQHVFKLSESRQTKVNFMYLMHASLDL
 SSPCFLSVGSQVLPVLKENVEGHDLPASEKHQDVTSTRTRPLEQKLISEEDLAANDIL
 DYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name MOCOS molybdenum cofactor sulfurase [Homo sapiens (human)]

Official Symbol MOCOS

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Synonyms	MOCOS; molybdenum cofactor sulfurase; MCS; MOS; HMCS; moCo sulfurase; EC 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
SDS-PAGE	