

Product datasheet for **TP304120**

MOCOS (NM_017947) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human molybdenum cofactor sulfurase (MOCOS), 20 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC204120 protein sequence Red =Cloning site Green =Tags(s)

MAGAAAESGRELWTFAGSRDPSAPRLAYGYGPGSLRELRAREFSRLAGTVYLDHAGATLFSQSQLESFTS
DLMENTYGNPHSQNISSKLTHDVEQVRYRILAHFHHTTAEDYTVIFTAGSTAALKLVAEAFWVSQGPES
SGSRFCYLTDSHTSVVGMNRVTMAINVISIPVRPEDLWSAEERGASASNPDCQLPHLFCYPAQSNFSGVR
YPLSWIEEVKSGRLRPVSTPGKWFVLLDAASYVSTSPLDLSAHQADFVPISFYKIFGFPTGLGALLVHNR
AAPLLRKTYFGGGTASAYLAGEDFYIPRQSVAQRFEDGTISFLDVIALKHGFDTLERLTGGMENIKQHTF
TLAQYTYMALSSLQYPNGAPVVRIYSDSEFSSPEVQGPIINFNVLDDKGNIIIGYSQVDKMASLYNIHLRT
GCFCNTGACQRHLGISNEMVRKHFQAGHVCNMDLIDGQPTGSRISFGYMSTLDDVQAFRLFIDTRL
HSSGDWPVPAHADTGETGAPSADSQADVPAVMGRRSLSPQEDALTGSRVWNNSSSTVNAPVAPPVC
DV
ARTQPTPSEKAAGVLEGALGPHVVTNLYLYPIKSCAAFEVTRWPVGNQGLLYDRSWMVVNHNGVCLSQK
Q
EPRLCLIQPFIDLRQRIMVIKAKGMEPIEVPLENSERTQIRQSRVCADRVSTYDCGEKISSWLSTFFGR
PCHLIQSSNSQRNAKKKHGKDQLPGTMATLSLVNEAQYLLINTSSILELHRQLNTSDENGKEELFSLKD
LSLRFRANIIINGKRAFEEEKWDEISIGSLRFQVLGPCHRCQMICIDQQTGQRNQHVFKLSSESRETKVN
FGMYLMHASLDLSSPCFLSVGSQVLPVLKENVEGHDLPASEKHQDVT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

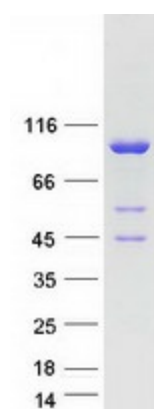
Tag:	C-Myc/DDK
Predicted MW:	97.9 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol



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Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	<u>NP_060417</u>
Locus ID:	55034
UniProt ID:	<u>Q96EN8</u>
RefSeq Size:	2747
Cytogenetics:	18q12.2
RefSeq ORF:	2664
Synonyms:	HMCS; MCS; MOS
Summary:	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. [provided by RefSeq, Apr 2017]

Product images:



Coomassie blue staining of purified MOCOS protein (Cat# TP304120). The protein was produced from HEK293T cells transfected with MOCOS cDNA clone (Cat# [RC204120]) using MegaTran 2.0 (Cat# [TT210002]).