

## Product datasheet for PH304120

### MOCOS (NM\_017947) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	MOCOS MS Standard C13 and N15-labeled recombinant protein (NP_060417)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC204120
Predicted MW:	98.2 kDa
Protein Sequence:	>RC204120 protein sequence Red=Cloning site Green=Tags(s)

MAGAAAESGRELWTFAGSRDPSAPRLAYGYGPGSLRELRAREFSRLAGTVYLDHAGATLFSQSQLESFTS  
DLMENTYGNPHSQNISSKLTHTDVEQVRYRILAHFHHTAEDYTVIFTAGSTAALKLVAEAFWVSQGPES  
SGSRFCYLTDSTSVVGMNRVTMAINVISIPVRPEDLWSAEERGASASNPDCQLPHLFCYPAQSNFSGVR  
YPLSWIEEVKSGRLRPVSTPGKWFVLLDAASYVSTSPDL SAHQADFVPI SFYKIFGFP TGLGALLVHNR  
AAPLLRKTYFGGGTASAYLAGEDFYIPRQSV AQRFEDGTISFLDVIALKHGFDTLERLTGGMENIKQHTF  
TLAQYTYMALSSLQYPNGAPVVRIYSDSEFSSPEVQGP IINFVLDKGN IIGYSQVDMASLYNIHLRT  
GCFCNTGACQRHLGISNEMVRKHFQAGHVCGDNMDLIDGQPTGSVRI SFGYMSTLDDVQAF LRFIIDTRL  
HSSGDWPVPQAHADTGETGAPSADSQADVIPAVMGRRSLSPQEDALTGSRVWNNSSVNAVVPVAPPVCDV  
ARTQPTPSEKAAGVLEGALGPHVVTNL YLYPIKSCAAFEVTRWPVGNQGLLYDRSWMVNVHNGVCLSQKQ  
EPRLCLIQPFIDLRQRIMVIKAKGMEPIEVPLENSERTQIRQSRVCA DRVSTYDCGEKISSWLSTFFGR  
PCHLIKQSSNSQRNAKKKHGKDQLPGTMATLSLVNEAQYLLINTSSILELHRQLNTSDENGEELFSLKD  
LSLRF RANIIINGKRAFEKWEI SIGSLRFQVLGPCHRCQM ICIDQQTGQRNQHV FQKLSSERETQV N  
FGMYLMHASLDLSSPCFLSVGSQVLPVLKENVEGHDLPA SEKHQDVTS

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>4</sub> ]-L-Arginine and [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>2</sub> ]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.



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RefSeq: [NP\\_060417](#)

RefSeq Size: 2747

RefSeq ORF: 2664

Synonyms: HMCS; MCS; MOS

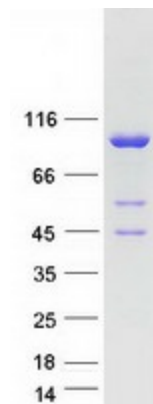
Locus ID: 55034

UniProt ID: [Q96EN8](#)

Cytogenetics: 18q12.2

**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]).