

Product datasheet for PH303877

MOSC2 (MARC2) (NM_017898) Human Mass Spec Standard

Product data:

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|---------------------------------------|---|
| Product Type: | Mass Spec Standards |
| Description: | MOSC2 MS Standard C13 and N15-labeled recombinant protein (NP_060368) |
| Species: | Human |
| Expression Host: | HEK293 |
| Expression cDNA Clone or AA Sequence: | RC203877 |
| Predicted MW: | 38 kDa |
| Protein Sequence: | >RC203877 protein sequence Red=Cloning site Green=Tags(s) |

MGASSSALARLGLPARPWPRWLGVAALGLAAVALGTVAWRRRAWPRRRRLQQVGTVAKLWIYPVKSCKG
VPVSEAECTAMGLRSGNLRDRFWLVIKEDGHMVTARQEPRLVLSIIYENNCLIFRAPDMDQLVLPKQP
SSNKLHNCRIFGLDIKGRDCGNEAAKWFNFNFKTEAYRLVQFETNMKGRTSRKLLPTLDQNFQVAYPDYC
PLLIMTDASLVLDNTRMEKKMKMENFRPNIVVTGCDAFEEDTWDELLIGSVEVKKVMACPRCILTTVDPD
TGVIDRKQPLDTLKSRYRLCDPSERELYKLSPLFGIYYSVEKIGSLRVGDPVYRMV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

| | |
|------------------|--|
| 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- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-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. |
| RefSeq: | NP_060368 |
| RefSeq Size: | 1618 |
| RefSeq ORF: | 1005 |
| Synonyms: | MARC2; MOSC2 |
| Locus ID: | 54996 |



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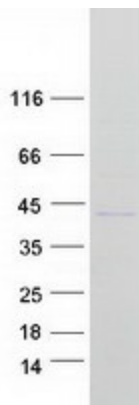
UniProt ID: [Q969Z3](#)

Cytogenetics: 1q41

Summary: The protein encoded by this gene is an enzyme found in the outer mitochondrial membrane that reduces N-hydroxylated substrates. The encoded protein uses molybdenum as a cofactor and cytochrome b5 type B and NADH cytochrome b5 reductase as accessory proteins. One type of substrate used is N-hydroxylated nucleotide base analogues, which can be toxic to a cell. Other substrates include N(omega)-hydroxy-L-arginine (NOHA) and amidoxime prodrugs, which are activated by the encoded enzyme. Multiple transcript variants encoding the different isoforms have been found for this gene. [provided by RefSeq, Sep 2016]

Protein Families: Transmembrane

Product images:



Coomassie blue staining of purified MARC2 protein (Cat# [TP303877]). The protein was produced from HEK293T cells transfected with MARC2 cDNA clone (Cat# [RC203877]) using MegaTran 2.0 (Cat# [TT210002]).