

Recombinant Human MTARC1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. MTARC1-3406H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	MOSC1 MS Standard C13 and N15-labeled recombinant protein (NP_073583) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	Catalyzes the reduction of N-oxygenated molecules, acting as a counterpart of cytochrome P450 and flavin-containing monooxygenases in metabolic cycles. As a component of prodrug-converting system, reduces a multitude of N-hydroxylated prodrugs particularly amidoximes, leading to increased drug bioavailability. May be involved in mitochondrial N(omega)-hydroxy-L-arginine (NOHA) reduction, regulating endogenous nitric oxide levels and biosynthesis. Postulated to cleave the N-OH bond of N-hydroxylated substrates in concert with electron transfer from NADH to cytochrome b5 reductase then to cytochrome b5, the ultimate electron donor that primes the active site for substrate reduction.
Molecular Mass	37.5 kDa
AA Sequence	MGAAGSSALARFVLLAQSRPGWLGVAALGLTAVALGAVAWRRRAWPTRRRRLQV GTVAQLWIYPVKCKGVPVSEAECTAMGLRSGNLRDRFWLVINQEGNMVTARQEP RLVLISLTCDGDTLTLSAAYTKDLLPIKTPTTNAVHKCRVHGLEIEGRDCGEAAAQWI TSFLKSQPYRLVHFEPHKRPRRPHQIADLFRPKDQIAYSDTSPFLILSEASLADLNSR

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LEKKVKATNFRPNIVISGCDVYAEDSWDELLIGDVELKRVMACSRCILTTVDPDTGVM
SRKEPLETLKSYRQCDPSEKLYGKSPLFGQYFVLENPGTIKVGDPVYLLGQTRTRP
LEQKLISEEDLAANDILDYKDDDDKV

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 [MTARC1 mitochondrial amidoxime reducing component 1 \[Homo sapiens \(human\) \]](#)

Official Symbol [MTARC1](#)

Synonyms MARC1; mitochondrial amidoxime reducing component 1; MARC1; MOSC1; mitochondrial amidoxime-reducing component 1; MOCO sulphurase C-terminal domain containing 1; MOSC domain-containing protein 1, mitochondrial; moco sulfurase C-terminal domain-containing protein 1; molybdenum cofactor sulfurase C-terminal domain-containing protein 1

Gene ID [64757](#)

mRNA Refseq [NM_022746](#)

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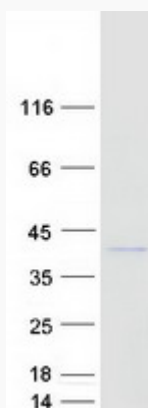
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Protein Refseq NP_073583

MIM 614126

UniProt ID Q5VT66

SDS-PAGE



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