Recombinant Human MTARC1 Protein, Myc/DDK-tagged

Cat. No. MTARC1-01H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human MTARC1 protein with a C-terminal Myc/DDK-tag was expressed in HEK293T.
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	37.3 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles
Storage	Store it at -80 centigrade.

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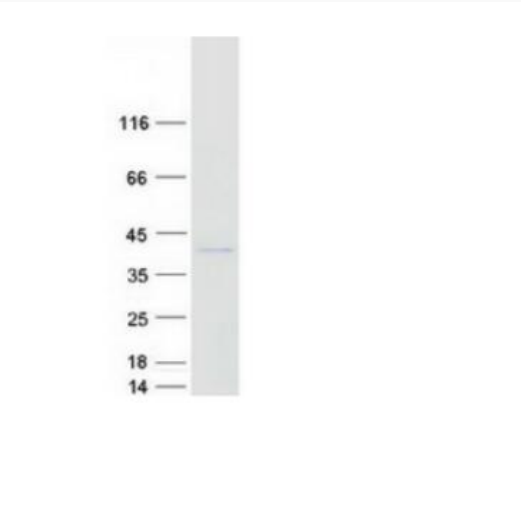
Concentration	>50 ug/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris. HCl, pH 7.3, 100 mM glycine, 10% glycerol

GENE INFORMATION

Gene Name	MTARC1 mitochondrial amidoxime reducing component 1 [Homo sapiens (human)]
Official Symbol	MTARC1
Synonyms	MTARC1; 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
Protein Refseq	NP_073583
MIM	614126
UniProt ID	Q5VT66

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Coomassie blue staining of purified MARC1 protein



The protein was produced from HEK293T cells transfected with MARC1 cDNA clone using MegaTran 2.0.

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