

Recombinant Human MARS protein, His-tagged

Cat. No. MARS-3246H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human MARS protein(552-900 aa), fused with N-terminal His tag, was expressed in E.coli.
Species	Human
Source	E.coli
ProteinLength	552-900 aa
Form	The purified protein was lyophilized from sterile phosphate-buffered saline (PBS: 58 mM Na ₂ HPO ₄ , 17 mM NaH ₂ PO ₄ , 68 mM NaCl, pH 7.4). Prior to lyophilization, 5% (w/v) trehalose and 5% (w/v) mannitol were incorporated as cryoprotective excipients. The protein was eluted with a buffer containing 300 mM imidazole.
AASequence	MAKDNVPFHSLVFPCSAALGAEDNYTLVSHLIATEYLNIEDGKFSKSRGVGVFGDMA QDTGIPADIWRFYLLYIRPEGQDSAFSWTDLLLKNNSELLNNLGNFINRAGMFVSKFF GGYVPEMVLTPDDQRLLAHVTLLELQHYHQLLEKVRIRDALRSILTISRHGNQYIQVNE PWKRIKGSEADRQRAGTVTGLAVNIAALLSVMLQPYMPTVSATIQAQLQLPPACASIL LTNFLCTLPAQHIGITVSPFLFQKLENDQIESLRQRFGGGQAKTSPKPAVVETVTTAK PQQIQALMDEVTKQGNIVRELKAQKADKNEVAAEVAKLLDLKKQLAVAEGKPPEAPK GKKKK
Purity	80%, by SDS-PAGE with Coomassie Brilliant Blue staining.
Storage	Store at 2-8°C for 1-2 weeks. Aliquot and store at -20°C to -80°C for up to 12 months,

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reconstitution with sterile water and addition of an equal volume of glycerol. Avoid repeat freeze-thaw cycles.

Reconstitution

Dissolve the product in 200 µl sterile water to achieve a working concentration of 0.25 g/µl. If experimental compatibility allows, mix the aqueous solution with an equal volume of glycerol (1:1 ratio) after initial reconstitution.

GENE INFORMATION

Gene Name MARS methionyl-tRNA synthetase [Homo sapiens]

Official Symbol MARS

Synonyms

MARS; methionyl-tRNA synthetase; methionine--tRNA ligase, cytoplasmic; methionine tRNA ligase 1; cytoplasmic; MetRS; cytosolic methionyl-tRNA synthetase; methionine tRNA ligase 1, cytoplasmic; MRS; METRS; MTRNS; FLJ35667;

Gene ID 4141

mRNA Refseq NM_004990

Protein Refseq NP_004981

MIM 156560

UniProt ID P56192

SDS-PAGE

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