

Recombinant Human MARS, MYC/DDK-tagged

Cat. No. MARS-20H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human MARS, fused with C-terminal MYC/DDK, was expressed in HEK293.
Species	Human
Source	HEK293
Description	This gene encodes a member of the class I family of aminoacyl-tRNA synthetases. These enzymes play a critical role in protein biosynthesis by charging tRNAs with their cognate amino acids. The encoded protein is a component of the multi-tRNA synthetase complex and catalyzes the ligation of methionine to tRNA molecules.
Molecular Mass	100.9 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
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	MARS methionyl-tRNA synthetase [Homo sapiens (human)]
Official Symbol	MARS

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Synonyms	MARS; MRS; METRS; MTRNS; SPG70; methionyl-tRNA synthetase; methionine--tRNA ligase, cytoplasmic; cytosolic methionyl-tRNA synthetase; NP_004981.2; EC 6.1.1.10
Gene ID	4141
mRNA Refseq	NM_004990
Protein Refseq	NP_004981
MIM	156560
UniProt ID	P56192
Chromosome Location	12q13
Pathway	Aminoacyl-tRNA biosynthesis; Cytosolic tRNA aminoacylation; Selenocompound metabolism
Function	ATP binding; methionine-tRNA ligase activity; tRNA binding

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