

Recombinant Human MARS, GST-tagged

Cat. No. MARS-21H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human MARS(801 a.a. - 899 a.a.), fused with GST-tag at N-terminal, was expressed in wheat germ.
Species	Human
Source	Wheat Germ
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	36.63 kDa
AA Sequence	LFQKLENDQIESLRQRFGGGQAKTSPKPAVVETVTTAKPQQIQALMDEVTKQGNIVR ELKAQKADKNEVAAEVAK LLDLKKQLAVAEGKPPEAPKGKKK
Applications	ELISA; WB-Re; AP; Array
Storage	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

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Gene Name	MARS methionyl-tRNA synthetase [Homo sapiens (human)]
Official Symbol	MARS
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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