

Recombinant Human MARS protein, His & T7-tagged

Cat. No. MARS-8218H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human MARS aa. (Gly74~Leu198 (Accession # P56192)) fused with N-terminal His & T7 tag was produced in E. coli cells.
Species	Human
Source	E.coli
ProteinLength	Gly74~Leu198
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.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 17.7kDa.
Endotoxin	<1.0EU per 1ug (determined by the LAL method)
Purity	>90%
Characteristic	The isoelectric point is 4.5.
Applications	SDS-PAGE; WB; ELISA; IP.

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Stability	The thermal stability is described by the loss rate of the target protein. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. (Referring from China Biological Products Standard, which was calculated by the Arrhenius equation.) The loss of this protein is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Storage Buffer	Supplied as lyophilized form in 20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% sarcosyl, 5% trehalose, and preservative.
Reconstitution	Reconstitute in sterile ddH ₂ O.

GENE INFORMATION

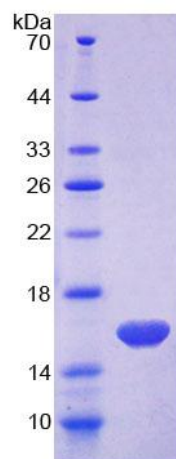
Gene Name	MARS methionyl-tRNA synthetase [Homo sapiens (human)]
Official Symbol	MARS
Synonyms	MARS; methionyl-tRNA synthetase; MRS; ILLD; CMT2U; ILFS2; METRS; MTRNS; SPG70; methionine--tRNA ligase, cytoplasmic; cytosolic methionyl-tRNA synthetase
Gene ID	4141
mRNA Refseq	NM_004990.3
Protein Refseq	NP_004981.2
UniProt ID	P56192

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SDS-PAGE



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