

## Recombinant Mouse Mars protein, His & T7-tagged

Cat. No. Mars-8219M Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Mouse Mars aa. (Gly74~Pro212 (Accession # Q68FL6)) fused with N-terminal His & T7 tag was produced in E. coli cells.
<b>Species</b>	Mouse
<b>Source</b>	E.coli
<b>ProteinLength</b>	Gly74~Pro212
<b>Description</b>	<p>The encoded protein belongs to the class I family of tRNA synthetases, a class of enzymes that charge tRNAs with their cognate amino acids. The related human gene product is essential for the translation initiation of mRNAs. This gene has an overlapping 3' UTR tail-to-tail arrangement with an adjacent gene on the opposite strand that encodes an inhibitor of the CCAAT/enhancer-binding protein's DNA binding activity. This arrangement, conserved in human and mouse, may be involved in mRNA stability and possible functional and regulatory interaction of these adjacent overlapping genes. Alternative splicing results in multiple transcript variants.</p>
<b>Form</b>	Freeze-dried powder
<b>Molecular Mass</b>	Predicted Molecular Mass: 19.3kDa.
<b>Endotoxin</b>	<1.0EU per 1ug (determined by the LAL method)
<b>Purity</b>	>90%

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<b>Characteristic</b>	The isoelectric point is 4.7.
<b>Applications</b>	SDS-PAGE; WB; ELISA; IP.
<b>Stability</b>	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.
<b>Storage</b>	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
<b>Storage Buffer</b>	Supplied as lyophilized form in 20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% sarcosyl, 5% trehalose, and preservative.
<b>Reconstitution</b>	Reconstitute in sterile ddH <sub>2</sub> O.

## GENE INFORMATION

<b>Gene Name</b>	Mars methionine-tRNA synthetase [ <i>Mus musculus</i> (house mouse) ]
<b>Official Symbol</b>	Mars
<b>Synonyms</b>	Mars; methionine-tRNA synthetase; Metrs; Mtrns; methionine--tRNA ligase, cytoplasmic; methionine tRNA ligase; methionyl-tRNA synthetase, cytoplasmic
<b>Gene ID</b>	216443
<b>mRNA Refseq</b>	NM_001003913.2

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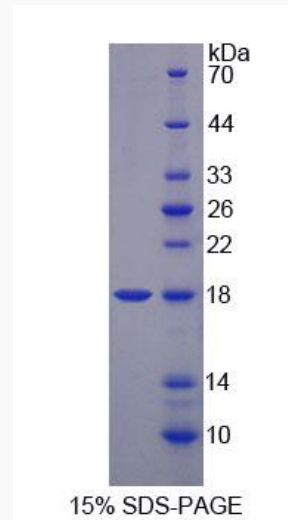
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**Protein Refseq** NP\_001003913.1

**UniProt ID** Q68FL6

**SDS-PAGE**



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