

Recombinant Mouse Mars protein, His & T7-tagged

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

SPECIFICATION

Product Overview	Recombinant Mouse Mars aa. (Gly74~Pro212 (Accession # Q68FL6)) fused with N-terminal His & T7 tag was produced in E. coli cells.
Species	Mouse
Source	E.coli
ProteinLength	Gly74~Pro212
Description	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.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 19.3kDa.
Endotoxin	<1.0EU per 1ug (determined by the LAL method)
Purity	>90%

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Characteristic	The isoelectric point is 4.7.
Applications	SDS-PAGE; WB; ELISA; IP.
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 methionine-tRNA synthetase [<i>Mus musculus</i> (house mouse)]
Official Symbol	Mars
Synonyms	Mars; methionine-tRNA synthetase; Metrs; Mtrns; methionine--tRNA ligase, cytoplasmic; methionine tRNA ligase; methionyl-tRNA synthetase, cytoplasmic
Gene ID	216443
mRNA Refseq	NM_001003913.2

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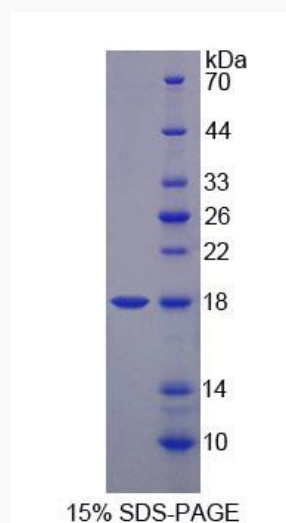
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Protein Refseq NP_001003913.1

UniProt ID Q68FL6

SDS-PAGE



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