

Recombinant Mouse Mars2 Protein, His-tagged

Cat. No. Mars2-1765M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Mars2 Protein (Phe363-Thr586) with N-His tag was expressed in E. coli.
Species	Mouse
Source	E.coli
ProteinLength	Phe363-Thr586
Description	Predicted to enable methionine-tRNA ligase activity. Predicted to be involved in methionyl-tRNA aminoacylation. Predicted to act upstream of or within translation. Located in mitochondrion. Is expressed in several structures, including alimentary system; brain; cardiovascular system; genitourinary system; and immune system. Human ortholog(s) of this gene implicated in combined oxidative phosphorylation deficiency 25 and spastic ataxia 3. Orthologous to human MARS2 (methionyl-tRNA synthetase 2, mitochondrial).
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 28.8 kDa Accurate Molecular Mass: 29 kDa
Purity	> 97%
Applications	Positive Control; Immunogen; SDS-PAGE; WB.

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Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in PBS or others.

GENE INFORMATION

Gene Name	Mars2 methionine-tRNA synthetase 2 (mitochondrial) [Mus musculus (house mouse)]
Official Symbol	Mars2
Synonyms	Mars2; methionine-tRNA synthetase 2 (mitochondrial); MetRS; C730026E21Rik; methionine--tRNA ligase, mitochondrial; methionine--tRNA ligase 2; methionyl-tRNA synthetase 2; methionyl-tRNA synthetase, mitochondrial; mitochondrial methionine--tRNA ligase; mitochondrial methionyl-tRNA synthetase; mtMetRS; EC 6.1.1.10
Gene ID	212679
mRNA Refseq	NM_175439
Protein Refseq	NP_780648
UniProt ID	Q499X9

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