

Recombinant Human MARS 293 Cell Lysate

Cat. No. MARS-4463HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Human
Source	HEK293
Description	Antigen standard for methionyl-tRNA synthetase (MARS) is a lysate prepared from HEK293T cells transiently transfected with a TrueORF gene-carrying pCMV plasmid and then lysed in RIPA Buffer. Protein concentration was determined using a colorimetric assay. The antigen control carries a C-terminal Myc/DDK tag for detection.
Components	This product includes 3 vials: 1 vial of gene-specific cell lysate, 1 vial of control vector cell lysate, and 1 vial of loading buffer. Each lysate vial contains 0.1 mg lysate in 0.1 ml (1 mg/ml) of RIPA Buffer (50 mM Tris-HCl pH7.5, 250 mM NaCl, 5 mM EDTA, 50 mM NaF, 1% NP40). The loading buffer vial contains 0.5 ml 2X SDS Loading Buffer (125 mM Tris-Cl, pH6.8, 10% glycerol, 4% SDS, 0.002% Bromophenol blue, 5% beta-mercaptoethanol).
Size	0.1 mg
Storage Instruction	Store at -80°C. Minimize freeze-thaw cycles. After addition of 2X SDS Loading Buffer, the lysates can be stored at -20°C. Product is guaranteed 6 months from the date of shipment.

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Applications

ELISA, WB, IP. WB: Mix equal volume of lysates with 2X SDS Loading Buffer. Boil the mixture for 10 min before loading (for membrane protein lysates, incubate the mixture at room temperature for 30 min). Load 5 ug lysate per lane.

GENE INFORMATION
Gene Name

MARS methionyl-tRNA synthetase [Homo sapiens]

Official Symbol

MARS

Synonyms

MARS; methionyl-tRNA synthetase; methionine--tRNA ligase, cytoplasmic; methionine tRNA ligase 1; cytoplasmic; MetRS; cytosolic methionyl-tRNA synthetase; methionine tRNA ligase 1, cytoplasmic; MRS; METRS; MTRNS; FLJ35667;

Gene ID

4141

mRNA Refseq

NM_004990

Protein Refseq

NP_004981

MIM

156560

UniProt ID

P56192

**Chromosome
Location**

12q13

Pathway

Aminoacyl-tRNA biosynthesis, organism-specific biosystem; Aminoacyl-tRNA biosynthesis, conserved biosystem; Aminoacyl-tRNA biosynthesis, eukaryotes, organism-specific biosystem; Aminoacyl-tRNA biosynthesis, eukaryotes, conserved biosystem; Cytosolic tRNA aminoacylation, organism-specific biosystem; Gene

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Expression, organism-specific biosystem; Selenocompound metabolism, organism-specific biosystem;

Function

ATP binding; ligase activity; methionine-tRNA ligase activity; nucleotide binding; tRNA binding;

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