

Recombinant Mouse Fars2 Protein, Myc/DDK-tagged

Cat. No. Fars2-2955M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length phenylalanine-tRNA synthetase 2 (mitochondrial) (Fars2), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	Is responsible for the charging of tRNA(Phe) with phenylalanine in mitochondrial translation. To a lesser extent, also catalyzes direct attachment of m-Tyr (an oxidized version of Phe) to tRNA(Phe), thereby opening the way for delivery of the misacylated tRNA to the ribosome and incorporation of ROS-damaged amino acid into proteins.
Molecular Mass	52.3 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade after receiving vials.
Concentration	>50 µg/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

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GENE INFORMATION

Gene Name	Fars2 phenylalanine-tRNA synthetase 2 (mitochondrial) [Mus musculus (house mouse)]
Official Symbol	Fars2
Synonyms	FARS2; phenylalanine-tRNA synthetase 2 (mitochondrial); phenylalanine--tRNA ligase, mitochondrial; pheRS; phenylalanyl-tRNA synthetase, mitochondrial; phenylalanine-tRNA synthetase 1 (mitochondrial); Fars1; 2810431B21Rik; 6720478K01Rik
Gene ID	69955
mRNA Refseq	NM_024274
Protein Refseq	NP_077236
UniProt ID	Q99M01

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