

Recombinant Human FARS2, GST-tagged

Cat. No. FARS2-12748H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human FARS2 protein, fused to GST-tag, was expressed in E.coli and purified by GSH-sepharose.
Species	Human
Source	E.coli
ProteinLength	109-451a.a.
Description	Aminoacyl-tRNA synthetases are a class of enzymes that charge tRNAs with their cognate amino acids. This gene encodes a phenylalanine-tRNA synthetase (PheRS) localized to the mitochondrion which consists of a single polypeptide chain, unlike the (alpha-beta) ₂ structure of the prokaryotic and eukaryotic cytoplasmic forms of PheRS. Structure analysis and catalytic properties indicate mitochondrial PheRSs may constitute a class of PheRS distinct from the enzymes found in prokaryotes and in the eukaryotic cytoplasm.
Storage	The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.
Storage Buffer	1M PBS (58mM Na ₂ HPO ₄ , 17mM NaH ₂ PO ₄ , 68mM NaCl, pH8.) added with 100mM GSH and 1% Triton X-100, 15% glycerol.

GENE INFORMATION

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Gene Name	FARS2 phenylalanyl-tRNA synthetase 2, mitochondrial [Homo sapiens]
Official Symbol	FARS2
Synonyms	FARS2; phenylalanyl-tRNA synthetase 2, mitochondrial; FARS1, phenylalanine tRNA synthetase 1 (mitochondrial); phenylalanine--tRNA ligase, mitochondrial; dJ236A3.1; phenylalanine tRNA ligase 2; mitochondrial; phenylalanine transase; dJ236A3.1 (phenylalanine-tRNA synthetase); phenylalanine tRNA ligase 2, mitochondrial; phenylalanyl-tRNA synthetase, mitochondrial; phenylalanine-tRNA synthetase 1 (mitochondrial); phenylalanine-tRNA synthetase 2 (mitochondrial); dJ520B18.2 (FARS1 (phenylalanine-tRNA synthetase)); FARS1; PheRS; HSPC320; dJ520B18.2;
Gene ID	10667
mRNA Refseq	NM_006567
Protein Refseq	NP_006558
MIM	611592
UniProt ID	O95363
Chromosome Location	6p25.1
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; Gene Expression, organism-specific biosystem; Mitochondrial tRNA aminoacylation, organism-specific biosystem; tRNA Aminoacylation, organism-specific biosystem;

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Function

ATP binding; aminoacyl-tRNA ligase activity; ligase activity; magnesium ion binding; nucleotide binding; phenylalanine-tRNA ligase activity; tRNA binding; tRNA binding;

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