

Recombinant Human Phenylalanyl-tRNA Synthetase 2, His-tagged

Cat. No. FARS2-976H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human FARS2 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Species	Human
Source	E.coli
Description	Phenylalanyl-tRNA synthetase 2, mitochondrial (PheRS), also known as FARS2, belongs to the class II aminoacyl-tRNA synthetase family. FARS2 is a mitochondrial matrix protein. Functioning as a monomer, FARS2 catalyzes the ATP-dependent conversion of L-phenylalanine and tRNA (Phe) to L-phenylalanyl-tRNA (Phe), an event that is crucial for proper translation and protein expression.
Formulation	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 30% glycerol, 1mM EDTA, 0.1M NaCl
Purity	> 90% by SDS - PAGE
Concentration	0.5 mg/ml (determined by Bradford assay)
Sequences of amino acids	MGSSHHHHHH SSGLVPRGSH MPAAECATQR APGSVELLG KSYPQDDHSN LTRKVLTRVG RNLHNQQHHPLWLIKERVKE HFYKQYVGRFGTPLFSVYDN LSPVTTWQN FDSLLIPADH PSRKKGDNY LNRTHMLRAH TSAHQWDLH AGLDAFLVVG DVYRRDQIDS QHYPIFHQLE AVRLFSKHEL FAGIKDGESL

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QLFEQSSRSA HKQETHTEA VKLVEFDLKQ TLTRLMAHLF GDELEIRWVD
CYFPFTHPSF EMEINFHGEWLEVLGCGVME QQLVNSAGA Q DRIGWAFGLG
LERLAMILYD IPDIRLFWCE DERFLKQFCV SNINQKVKFQ PLSKYPVIN
DISFWLPSEN YAENDFYDLV RTIGGDLVEK VDLIDKFVHP KTHKTSHCYR
ITYRHMERTL SQREVRHIHQ ALQEAAVQLL GVEGRF

Storage

Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

GENE INFORMATION
Gene Name

[FARS2 phenylalanyl-tRNA synthetase 2, mitochondrial \[Homo sapiens \]](#)

Synonyms

FARS2; phenylalanyl-tRNA synthetase 2, mitochondrial; FARS1; PheRS; HSPC320; dJ520B18.2; phenylalanyl-tRNA synthetase, mitochondrial; phenylalanine-tRNA synthetase 1 (mitochondrial); dJ236A3.1; phenylalanine tRNA ligase 2, mitochondrial; phenylalanine transase; phenylalanine--tRNA ligase; phenylalanine-tRNA synthetase 1 (mitochondrial); phenylalanine-tRNA synthetase 2 (mitochondrial); dJ520B18.2 (FARS1 (phenylalanine-tRNA synthetase)); EC6.1.1.20; HSPC320; dJ236A3.1; Phenylalanine--tRNA ligase; phenylalanine tRNA ligase 2, mitochondrial; phenylalanine transase

Gene ID

[10667](#)

MIM

[611592](#)

mRNA Refseq

[NM_006567](#)

Protein Refseq

[NP_006558](#)

UniProt ID

[O95363](#)

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Chromosome Location	6p25.1
Function	ATP binding;ligase activity;magnesium ion binding;nucleotide binding;phenylalanine-tRNA ligase activity;phenylalanine-tRNA ligase activity;tRNA binding