

## 32-2317: FARS2 Recombinant Protein

**Alternative Name :** Phenylalanyl-tRNA synthetase mitochondrial, Phenylalanine--tRNA ligase, PheRS, FARS2, FARS1, HSPC320, dj520B18.2.

### Description

Source : Escherichia Coli. FARS2 produced in E.Coli is a single, non-glycosylated polypeptide chain containing 436 amino acids (37-451 a.a.) and having a molecular mass of 50.6kDa. FARS2 is fused to a 21 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques. Phenylalanyl-tRNA synthetase 2 mitochondrial (FARS2) is a member of the class II aminoacyl- tRNA synthetase family. FARS2 is a mitochondrial matrix protein. FARS2 when acting as a monomer, catalyzes the ATP-dependent conversion of L-phenylalanine and tRNA (Phe) to L-phenalanyl tRNA (Phe), an event which is vital for proper translation and protein expression.

### Product Info

**Amount :** 10 µg

**Purification :** Greater than 90.0% as determined by SDS-PAGE.

**Content :** FARS2 solution (0.5mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 1mM DTT, 30% glycerol, 1mM EDTA and 0.1M NaCl.

**Storage condition :** Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

**Amino Acid :** MGSSHHHHHH SSGLVPRGSH MPAAECATQR APGSVVELLG KSYPQDDHSN LTRKVLTRVG  
RNLHNQQHHP LWLIKERVKE HFYKQYVGRF GTPLFSVYDN LSPVTTWQN FDSLLIPADH PSRKKGDNY  
LNRTHMLRAH TSAHQWDLH AGLDAFLVVG DVYRRDQIDS QHYPIFHQLE AVRLFSKHEL FAGIKDGESL  
QLFEQSSRSA HKQETHMTEA VKLVEFDLKQ TLTRLMAHLF GDELEIRWVD CYFPFTHPSF EMEINFHGEW  
LEVLGCGVME QQLVNSAGA QDRIGWAFGLG LERLAMLYD IPDIRLFWCE DERFLKQFCV SNINQKVKFQ  
PLSKYPAVIN DISFWLPSEN YAENDFYDLV RTIGGDLVEK VDLIDKFVHP KTHKTSHCYR ITYRHMERL  
SQREVRHIHQ ALQEAAVQLL GVEGRF.

