

Phenylalanyl-tRNA Synthetase 2 Human Recombinant

Item Number	rAP-1835
Synonyms	Phenylalanyl-tRNA synthetase mitochondrial, Phenylalanine--tRNA ligase, PheRS, FARS2, FARS1, HSPC320, dJ520B18.2.
Description	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.
Uniprot Accession Number	O95363
Amino Acid Sequence	MGSSHHHHH SSGLVPRGSH MPAAECATQR APGSVVELLG KSYPQDDHSN LTRKVLTRVG RNLHNQQHHP LWLIKERVKE HFYKQYVGRF GTPLFSVYDN LSPVVTWQN FDSLLIPADH PSRK- KGDNY LNRTHMLRAH TSAHQWDLH AGLDAFLVVG DVYRRDQIDS QHYPIFHQLE AVRLFSEKHE FAGIKDGESL QLFQSSRSA HKQETHTEA VKLVEFDLQ TLTRLMAHLF GDELEIRWVD CYFPFTH- PSF EMEINFHGEW LEVLGCGVME QQLVNSAGAQ DRIGWAFGLG LERLAMILYD IPDIRLFWCE DER- FLKQFCV SNINQKVFKQ PLSKYPVIN DISFWLPSEN YAENDFYDLV RTIGGDLVEK VDLIDKFVHP KTHKTSHCYR IYRHMERTL SQREVRHIHQ ALQEAQVQLL GVEGRF.
Source	Escherichia Coli.
Physical Appearance and Stability	Sterile filtered colorless solution. 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.
Formulation and Purity	FARS2 solution (0.5mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 1mM DTT, 30% glycerol, 1mM EDTA and 0.1M NaCl. Greater than 90.0% as determined by SDS-PAGE.
Application	
Solubility	
Biological Activity	
Shipping Format and Condition	Lyophilized powder at room temperature.

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for **Research Use Only**