

FARS2 Human

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.

Catalog #: ENPS-118

Synonyms: Phenylalanyl-tRNA synthetase mitochondrial, Phenylalanine--tRNA ligase, PheRS, FARS2, FARS1, HSPC320, dJ520B18.2.

For research use only.

Source: Escherichia Coli.

Physical Appearance: Sterile filtered colorless solution.

Amino Acid Sequence: MGSSHHHHHH SSGLVPRGSH MPAAECATQR APGSVELLG
KSYPQDDHSN LTRKVLTRVG RNLHNQQHHP LWLIKERVKE HFYKQYVGRF GTPLFSVYDN
LSPVTTWQN FDSLLIPADH PSRKKGDNYY LNRTHMLRAH TSAHQWDLH AGLDAFLVVG
DVYRRDQIDS QHYPIFHQLE AVRLFSKHEL FAGIKDGESL QLFEQSSRSA HKQETHTEA
VKLVEFDLKQ TL

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

Formulation:

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

Stability:

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.

Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. They may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

Introduction:

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-phenylalanyl-tRNA (Phe), an event which is vital for proper translation and protein expression.

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