
Product Data Sheet

Product Name: FARS2 Human
 Cat. No.: GP21617
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Phenylalanyl-tRNA synthetase mitochondrial; Phenylalanine--tRNA ligase; PheRS; FARS2; FARS1; HSPC320; dj520B18.2.		
Amino Acid Sequence	<p>MGSSHHHHHH SSGLVPRGSH MPAAECA TQR APGSVVELLG KSYPQDDHSN LTRKVLTRVG RNLHNQQHHP LWLIKERVKE HFYKQYVGRF GTPLFSVYDN LSPVTTWQN FDSLLIPADH PSRKKGDNY LNRTHMLRAH TSAHQWDLH AGLDAFLVVG DVYRRDQIDS QHYPIFHQLE AVRLF SKHEL FAGIKDGESL QLFEQSSRSA HKQETH TMEA VKLVEFDLKQ TLRLMAHLF GDELEIRWVD CYFPFTHPSF EMEINFHGEW LEVLGCGVME QQLVNSAGA Q DRIGWAFGLG LERLAMILYD IPDIRLFWCE DERFLKQFCV SNINQKVKFQ PLSKYP AVIN DISFWLPSEN YAENDFYDLV RTIGGDLVEK VDLIDKFVHP KTHKTSHCYR IYRHMERTL SQREVRHIHQ ALQEAAVQLL GVEGRF.</p>		
Formulation	FARS2 solution (0.5mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 1mM DTT, 30% glycerol, 1mM EDTA and 0.1M NaCl.		

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.

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.

Caution: Product has not been fully validated for medical applications. For research use only.

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Background

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.

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