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## **Recombinant human FARS2 protein**

Catalog Number: ATGP1015

#### PRODUCT INFORMATION

#### **Expression system**

E.coli

#### **Domain**

37-451aa

#### UniProt No.

095363

#### **NCBI Accession No.**

NP 006558.1

#### **Alternative Names**

Phenylalanyl-tRNA synthetase 2 mitochondrial, Phenylalanyl-tRNA synthetase 2, mitochondrial, dJ520B18.2, FARS1, HSPC320, PheRS

#### **PRODUCT SPECIFICATION**

#### **Molecular Weight**

50.6 kDa (436aa) confirmed by MALDI-TOF

#### Concentration

0.5mg/ml (determined by Bradford assay)

#### **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

#### Tag

His-Tag

## **Application**

SDS-PAGE

#### **Storage Condition**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

#### **BACKGROUND**

### 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-phenylalanyltRNA (Phe), an event that is crucial for proper translation and protein expression. Recombinant human FARS2 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.



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### **Amino acid Sequence**

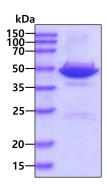
<MGSSHHHHHH SSGLVPRGSH M>PAAECATQR APGSVVELLG KSYPQDDHSN LTRKVLTRVG RNLHNQQHHP LWLIKERVKE HFYKQYVGRF GTPLFSVYDN LSPVVTTWQN FDSLLIPADH PSRKKGDNYY LNRTHMLRAH TSAHQWDLLH AGLDAFLVVG DVYRRDQIDS QHYPIFHQLE AVRLFSKHEL FAGIKDGESL QLFEQSSRSA HKQETHTMEA VKLVEFDLKQ TLTRLMAHLF GDELEIRWVD CYFPFTHPSF EMEINFHGEW LEVLGCGVME QQLVNSAGAQ DRIGWAFGLG LERLAMILYD IPDIRLFWCE DERFLKQFCV SNINQKVKFQ PLSKYPAVIN DISFWLPSEN YAENDFYDLV RTIGGDLVEK VDLIDKFVHP KTHKTSHCYR ITYRHMERTL SQREVRHIHQ ALQEAAVQLL GVEGRF

#### **General References**

Sasaki H M., et al. (2006) Proc Natl Acad Sci uSA. 103:14744-14749. Bullard J M., et al. (1999) J Mol Biol. 288:567-577.

## **DATA**

#### **SDS-PAGE**



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

