

Recombinant human FARS2 protein

Catalog Number: ATGP1015

PRODUCT INFORMATION

Expression system

E.coli

Domain

37-451aa

UniProt No.

O95363

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-phenylalanyl-tRNA (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

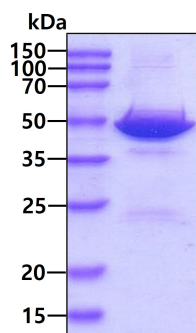
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AGLDAFLVVG DVYRRDQIDS QHYPIFHQLE AVRLFSKHEL FAGIKDGESL QLFEQSSRSA HKQETHTMEA VKLVEFDLKQ
TLTRLMAHLF GDELEIRWVD CYFPFTHPSF EMEINFHGEW LEVLGCGVME QQLVNSAGA QDRIGWAFGLG LERLAMILYD
IPDIRLFWCE DERFLKQFCV SNINQVKFKQ PLSKYPVIN DISFWLPSEN YAENDFYDLV RTIGGDLVEK VDLIDKRVHP
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.