

Instruction manual FOR RESEARCH USE ONLY NOT FOR USE IN CLINICAL DIAGNOSTIC PROCEDURES

FARS2, 37-451aa, Human, His tag, E.coli

Cat.NO.: TP02091

3th Edition

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

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.

Form:Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT,30% glycerol, 1mM EDTA, 0.1M NaCl

Molecular Weight: 50.6kDa (436aa), confirmed by MALDI-TOF

Sequences:

MGSSHHHHHHSSGLVPRGSHMPAAECATQRAPGSVVELLGKSYPQDDHSNLTRKVLTRVGRNLHNQQHHPLWLI KERVKEHFYKQYVGRFGTPLFSVYDNLSPVVTTWQNFDSLLIPADHPSRKKGDNYYLNRTHMLRAHTSAHQWDLL HAGLDAFLVVGDVYRRDQIDSQHYPIFHQLEAVRLFSKHELFAGIKDGESLQLFEQSSRSAHKQETHTMEAVKLVEF DLKQTLTRLMAHLFGDELEIRWVDCYFPFTHPSFEMEINFHGEWLEVLGCGVMEQQLVNSAGAQDRIGWAFGLGL ERLAMILYDIPDIRLFWCEDERFLKQFCVSNINQKVKFQPLSKYPAVINDISFWLPSENYAENDFYDLVRTIGGDLVEK VDLIDKFVHPKTHKTSHCYRITYRHMERTLSQREVRHIHQALQEAAVQLLGVEGRF

Purity:> 95% by HPLC

Concentration:0.5 mg/ml (determined by Bradford assay)

Endotoxin Level:<1.0 EU per 1 ug of protein (determined by LAL method)

Storage:Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

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