

## Recombinant Human FARS2 protein, His & T7-tagged

Cat. No. FARS2-8210H    Lot. No. (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                           |
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| <b>Product Overview</b> | Recombinant Human FARS2 aa. (Met1~Phe451 (Accession # O95363)) fused with N-terminal His & T7 tag was produced in E. coli cells.                                                                                                                                                                                                                          |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                     |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                    |
| <b>ProteinLength</b>    | Met1~Phe451                                                                                                                                                                                                                                                                                                                                               |
| <b>Description</b>      | This gene encodes a protein that transfers phenylalanine to its cognate tRNA. This protein localizes to the mitochondrion and plays a role in mitochondrial protein translation. Mutations in this gene can cause combined oxidative phosphorylation deficiency 14 (Alpers encephalopathy). Alternative splicing results in multiple transcript variants. |
| <b>Form</b>             | Freeze-dried powder                                                                                                                                                                                                                                                                                                                                       |
| <b>Molecular Mass</b>   | Predicted Molecular Mass: 56.1kDa.                                                                                                                                                                                                                                                                                                                        |
| <b>Endotoxin</b>        | <1.0EU per 1ug (determined by the LAL method)                                                                                                                                                                                                                                                                                                             |
| <b>Purity</b>           | >90%                                                                                                                                                                                                                                                                                                                                                      |
| <b>Characteristic</b>   | The isoelectric point is 7.                                                                                                                                                                                                                                                                                                                               |

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|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Applications</b>     | SDS-PAGE; WB; ELISA; IP.                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Stability</b>        | The thermal stability is described by the loss rate of the target protein. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. (Referring from China Biological Products Standard, which was calculated by the Arrhenius equation.) The loss of this protein is less than 5% within the expiration date under appropriate storage condition. |
| <b>Storage</b>          | Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.                                                                                                                                                                                                                                                                                                                                                                |
| <b>Storage Buffer</b>   | Supplied as lyophilized form in 20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% sarcosyl, 5% trehalose, and preservative.                                                                                                                                                                                                                                                                                                                               |
| <b>Reconstitution</b>   | Reconstitute in sterile ddH <sub>2</sub> O.                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>GENE INFORMATION</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Gene Name</b>        | <b>FARS2</b> phenylalanyl-tRNA synthetase 2, mitochondrial [ Homo sapiens (human) ]                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Official Symbol</b>  | <b>FARS2</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Synonyms</b>         | FARS2; phenylalanyl-tRNA synthetase 2, mitochondrial; FARS1; PheRS; SPG77; COXPD14; HSPC320; phenylalanine--tRNA ligase, mitochondrial; dJ236A3.1 (phenylalanine-tRNA synthetase); dJ520B18.2 (FARS1 (phenylalanine-tRNA synthetase)); mitochondrial PHERS; phenylalanine tRNA ligase 2, mitochondrial; phenylalanine transase; phenylalanine-tRNA synthetase 1 (mitochondrial)                                                                                           |
| <b>Gene ID</b>          | <b>10667</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

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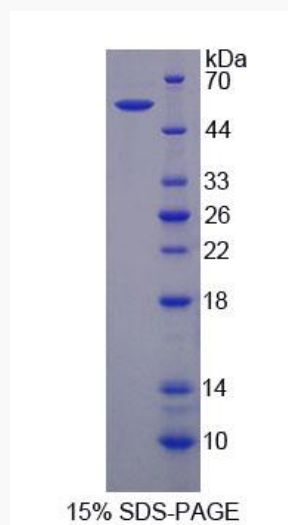
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mRNA Refseq NM\_001318872.1

Protein Refseq NP\_001305801.1

UniProt ID O95363

#### SDS-PAGE



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