

Recombinant Rat Tars2 Protein, His-tagged

Cat. No. Tars2-2113R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Rat Tars2 Protein (Phe438-Phe723) with N-His tag was expressed in E. coli.
Species	Rat
Source	E.coli
ProteinLength	Phe438-Phe723
Description	Predicted to enable aminoacyl-tRNA editing activity; protein homodimerization activity; and threonine-tRNA ligase activity. Predicted to be involved in threonyl-tRNA aminoacylation. Predicted to be located in mitochondrial matrix. Human ortholog(s) of this gene implicated in combined oxidative phosphorylation deficiency 21. Orthologous to human TARS2 (threonyl-tRNA synthetase 2, mitochondrial).
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 35.7 kDa Accurate Molecular Mass: 36 kDa
Purity	> 90%
Applications	Positive Control; Immunogen; SDS-PAGE; WB.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by

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accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.

Storage

Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.

Storage Buffer

20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.

Reconstitution

Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name

Tars2 threonyl-tRNA synthetase 2, mitochondrial (putative) [*Rattus norvegicus* (Norway rat)]

Official Symbol

Tars2

Synonyms

TARS2; threonyl-tRNA synthetase 2, mitochondrial (putative); threonine--tRNA ligase, mitochondrial; thrRS; threonyl-tRNA synthetase-like 1; threonyl-tRNA synthetase, mitochondrial; Tarsl1; RGD1308283;

Gene ID

310672

mRNA Refseq

NM_001014040

Protein Refseq

NP_001014062

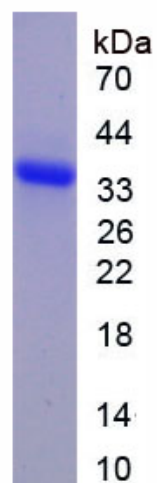
UniProt ID

Q68FW7

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