

Recombinant Rat Aars2 Protein, His-tagged

Cat. No. Aars2-08R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Rat Aars2 Protein (Val721-Leu985) with N-His tag was expressed in E. coli.
Species	Rat
Source	E.coli
ProteinLength	Val721-Leu985
Description	Predicted to enable several functions, including ATP binding activity; catalytic activity, acting on a tRNA; and tRNA binding activity. Predicted to be involved in mitochondrial alanyl-tRNA aminoacylation and tRNA modification. Predicted to be active in mitochondrion. Human ortholog(s) of this gene implicated in combined oxidative phosphorylation deficiency 8. Orthologous to human AARS2 (alanyl-tRNA synthetase 2, mitochondrial).
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 32 kDa Accurate Molecular Mass: 32 kDa
Purity	> 90%
Applications	Positive Control; Immunogen; SDS-PAGE; WB.

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Stability	The thermal stability is described by the loss rate. The loss rate was determined by 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	PBS, pH7.4, containing 0.01% SKL, 1 mM DTT, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in sterile water to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	Aars2 alanyl-tRNA synthetase 2, mitochondrial (putative) [Rattus norvegicus (Norway rat)]
Official Symbol	Aars2
Synonyms	AARS2; alanyl-tRNA synthetase 2, mitochondrial (putative); alanine--tRNA ligase, mitochondrial; alanyl-tRNA synthetase like; alanyl-tRNA synthetase, mitochondrial; probable alanyl-tRNA synthetase, mitochondrial; Aarsl; AlaRS
Gene ID	301254
mRNA Refseq	NM_001106891
Protein Refseq	NP_001100361
UniProt ID	D3ZX08

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