

Recombinant Human AARS2, His-tagged

Cat. No. AARS2-9197H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human AARS2 protein, fused to His-tag, was expressed in E.coli and purified by Ni-sepharose.
Species	Human
Source	E.coli
ProteinLength	635-985a.a.
Description	The protein encoded by this gene belongs to the class-II aminoacyl-tRNA synthetase family. Aminoacyl-tRNA synthetases play critical roles in mRNA translation by charging tRNAs with their cognate amino acids. The encoded protein is a mitochondrial enzyme that specifically aminoacylates alanyl-tRNA. Mutations in this gene are a cause of combined oxidative phosphorylation deficiency 8.
Storage	The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.
Storage Buffer	1M PBS (58mM Na ₂ HPO ₄ , 17mM NaH ₂ PO ₄ , 68mM NaCl, pH8.) added with 300mM Imidazole and 0.7% Sarcosyl, 15%glycerol.

GENE INFORMATION

Gene Name	AARS2 alanyl-tRNA synthetase 2, mitochondrial (putative) [Homo sapiens]
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Official Symbol	AARS2
Synonyms	AARS2; alanyl-tRNA synthetase 2, mitochondrial (putative); AARSL, alanyl tRNA synthetase like; alanine--tRNA ligase, mitochondrial; alanine tRNA ligase 2; mitochondrial (putative); bA444E17.1; KIAA1270; alanyl-tRNA synthetase like; probable alanyl-tRNA synthetase, mitochondrial; alanine tRNA ligase 2, mitochondrial (putative); AARSL; COXPD8; MTALARS; MT-ALARS;
Gene ID	57505
mRNA Refseq	NM_020745
Protein Refseq	NP_065796
MIM	612035
UniProt ID	Q5JTZ9
Chromosome Location	6p21.1
Pathway	Aminoacyl-tRNA biosynthesis, organism-specific biosystem; Aminoacyl-tRNA biosynthesis, conserved biosystem; Aminoacyl-tRNA biosynthesis, eukaryotes, organism-specific biosystem; Aminoacyl-tRNA biosynthesis, eukaryotes, conserved biosystem; Gene Expression, organism-specific biosystem; Mitochondrial tRNA aminoacylation, organism-specific biosystem; tRNA Aminoacylation, organism-specific biosystem;
Function	ATP binding; alanine-tRNA ligase activity; ligase activity; metal ion binding; nucleotide binding; tRNA binding;

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