

Recombinant Human AARS2 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. AARS2-4271H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	AARS2 MS Standard C13 and N15-labeled recombinant protein (NP_065796) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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.
Molecular Mass	107.1 kDa
AA Sequence	MAASVAAAARRLRRAIRRRSPAWRGLSHRPLSSEPPAAKASAVRAAFLNFFRDRHGH RLVPSASVRPRGDPSSLFVNAGMNQFKPIFLGTVDPRSEMAGFRRVANSQKCVRA GGHHNDLEDVGRDLSHHTFFEMLGNWAFGGGEYFKEEACNMAWELLTQVYGIPEER LWISYFDGDPKAGLDPDLETRDIWLSLGVPASRVLSFGPQENFWEMGDTGPCGPC TEIHYDLAGGVGAPQLVELWNLVFMQHNREADGSLQPLPQRHVDTGMGLERLVAV LQGKHSTYDSDLFSPLLNAIQQGCAPPYLGRVGVADGRTDTAYRVVADHIRTLSV CISDGVFPMSGPPLVLRRLRAVRFSMEILKAPPGFLGSLVPVVVETLGDAYPELQ RNSAQIANLVSEDEAAFLASLERGRRIIDRTLRTLGPSPDMFPAEVAWSLSLCGDLGLP

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LDMVELMLEEKGVQLDSAGLERLAQEEAQHRARQAEPVQKQGLWLDVHALGELQR
 QGVPPTDDSPKYNYSRLRPSGSYEFGTCEAQLQLYTEDGTAVASVGKGQRCGLLL
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 GGKAWGSRVVAQGTGSTTDLEALSIAQTYALSQLTRTRPLEQKLISEEDLAANDILD
 YKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 µg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name	AARS2 alanyl-tRNA synthetase 2, mitochondrial [Homo sapiens (human)]
Official Symbol	AARS2
Synonyms	AARS2; alanyl-tRNA synthetase 2, mitochondrial (putative); AARSL, alanyl tRNA synthetase like; alanine--tRNA ligase, mitochondrial; alanine tRNA ligase 2;

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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 [Q5J TZ9](#)

SDS-PAGE

