

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

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

SPECIFICATION

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| 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 RLVPSASVRPRGDPSELLFNAGMNQFKPIFLGTVDPRESEMAGFRRVANSQKCVRA GGHNDLEDVGRDLSHHTFFEMLGNWAFGGGEYFKEEACNMAWELLTQVYGIPEER LWISYFDGDPKAGLDPDLETRDIWLSLGVASRVLSFGPQENFWEAGDTGPCGPC TEIHYDLAGGVGAPQLVELWNLVFMQHNREADGSLQPLPQRHVDTGMGLERLVAV LQGHSTYDSDLFSPLLNAIQGCRAPPYLGRVGVADGRTDTAYRVVADHIRTLSV CISDGVFPGMSPPLVLRILRRAVRFSEILKAPPGFLGSLVPVVVETLGDAYPELQ RNSAQIANLVSEDEAAFLASLERGRRIIDRTLRTLGPSDMFPAEVAWSLSLCGDLGLP |

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LDMVELMLEEKGVQLDSAGLERLAQEEAQHRARQAEPVQKQGLWLDVHALGELQR
 QGVPPTDDSPKYNYSRLRPSGSYEFGTCEAQVLQLYTEDGTAVASVGKQRCGLLL
 DRTNFYAEQGGQASDRGYLVRAGQEDVLFPPVARAQVCGGFILHEAVAPECLRLGD
 QVQLHVDEAWRLGCMAKHTATHLLNWALRQTLGPGTEQQGSHLNPEQLRLDVTQ
 TPLTPEQLRAVENTVQEAVGQDEAVYMEEVPLALTAQVPGLRSLDEVYPDPVVRVVS
 VGVPVAHALDPASQAALQTSVELCCGTHLLRTGAVGDLVIIGDRQLSKGTTRLLAVT
 GEQAQQARELGQSLAQEVKAATERLSLGSRDVAEALRLSKDIGRLIEAVETAVMPQ
 WQRRELLATVKMLQRRANTAIRKLQMGQAAKKTQELLERHSHKGPLIVDTVSAESLSV
 LVKVVRQLCEQAPSTSVLLLSPQPMGKVLACQVAQGAMPTFTAEEAWALAVCSHM
 GGKAWGSRVVAQGTGSTTDLEAALSIAQTYALSQLTRTRPLEQKLISEEDLAANDILD
 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 [Q5JTZ9](#)

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