

Recombinant Human NARS2 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. NARS2-5506H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	NARS2 MS Standard C13 and N15-labeled recombinant protein (NP_078954) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	This gene encodes a putative member of the class II family of aminoacyl-tRNA synthetases. These enzymes play a critical role in protein biosynthesis by charging tRNAs with their cognate amino acids. This protein is encoded by the nuclear genome but is likely to be imported to the mitochondrion where it is thought to catalyze the ligation of asparagine to tRNA molecules. Mutations in this gene have been associated with combined oxidative phosphorylation deficiency 24 (COXPD24).
Molecular Mass	54.1 kDa
AA Sequence	MLGVRCLLRSVRFCSSAPFPKHKPSAKLSVRDALGAQNASGERIKIQGWIRSVRSQ KEVLFLHVNDGSSLESLSQVVADSGLDSRELTFGSSVEVQGGQLIKSPSKRQNVELKAE KIKVIGNCDAKDFPIKYKERHPLEYLRQYPHFRCTNVLGSILRIRSEATAAIHSFFKD SGFVHIHTPIITSNDSEGAGELFQLEPSGKLKVPEENFFNVPAFLTVSGQLHLEVMSG AFTQVFTFGPTFRAENSQSRRHLAEFYMIEAEISFVDSLQDLMQVIEELFKATTMMVL SKCPEDVELCHKFIAPGQKDRLEHMLKNNFLIISYTEAVEILKQASQNFTFTPEWGAD LRTEHEKYLVKHCGNIPVFVINYLPLTKPFYMRDNEDGPQHTVAAVDLLVPGVGELF

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	GGGLREERYHFLEERLARSGLTEVYQWYLDLRRFGSVPHGGFGMGFERYLQCILG VDNIKDVIPFPRFPHSCLLTRTRPLEQKLISEEDLAANDILDYKDDDDKV
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	NARS2 asparaginyl-tRNA synthetase 2, mitochondrial [Homo sapiens (human)]
Official Symbol	NARS2
Synonyms	NARS2; asparaginyl-tRNA synthetase 2, mitochondrial (putative); probable asparagine--tRNA ligase, mitochondrial; asparagine tRNA ligase 2; mitochondrial (putative); FLJ23441; SLM5; asparagine--tRNA ligase; asparagine tRNA ligase 2, mitochondrial (putative); probable asparaginyl-tRNA synthetase, mitochondrial; asnRS;
Gene ID	79731
mRNA Refseq	NM_024678
Protein Refseq	NP_078954

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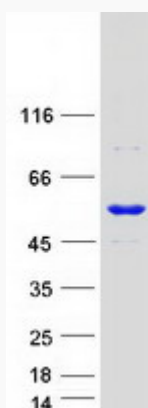
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MIM 612803

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SDS-PAGE



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