

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

**Cat. No.** NARS-5687H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | NARS MS Standard C13 and N15-labeled recombinant protein (NP_004530) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Description</b>      | Aminoacyl-tRNA synthetases are a class of enzymes that charge tRNAs with their cognate amino acids. Asparaginyl-tRNA synthetase is localized to the cytoplasm and belongs to the class II family of tRNA synthetases. The N-terminal domain represents the signature sequence for the eukaryotic asparaginyl-tRNA synthetases.                                                                                                                                                                                                                            |
| <b>Molecular Mass</b>   | 62.9 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>AA Sequence</b>      | MVLAELYVSDREGSDATGDGTKEKPFKTGLKALMTVGKEPFPTIYVDSQKENERWN<br>VISKSQKNIKKMWHREQMKSESREKKEAEDSLRREKNLEEAKKITIKNDPSLPEPK<br>CVKIGALEGYRGQRVKVFGWVHRLRRQGKNLMFLVLRDGTGYLQCVLADELQCQCY<br>NGVLLSTESSVAVYGMLNLTPKGKQAPGGHELSCDFWELIGLAPAGGADNLINEES<br>DVDVQLNNRHMMIRGENMSKILKARSMVTRCFRDHFFDRGYEYVTPPTLVQTQVE<br>GGATLFKLDYFGEEAFLTQSSQLYLETCLPALGDVFCIAQSYRAEQSRTRRHLAEYT<br>HVEAECPFLTFDLLNRLEDLVCDVVDRIKSPAGSIVHELNPNFQPPKRPFKRMNY<br>SDAIVWLKEHDVKKEDGTFYEFGEDIPEAPERLMTDTINEPILLCRFPVEIKSFYMQR<br>CPEDSRLTESVDVLMPNVGEIVGGSMRIFDSEEILAGYKREGIDPTPYWYTDQRKY |

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

## GENE INFORMATION

|                        |                                                                                                                                                                                                                |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | NARS asparaginyl-tRNA synthetase [ Homo sapiens (human) ]                                                                                                                                                      |
| <b>Official Symbol</b> | NARS                                                                                                                                                                                                           |
| <b>Synonyms</b>        | NARS; asparaginyl-tRNA synthetase; asparagine--tRNA ligase, cytoplasmic; asparagine tRNA ligase 1; cytoplasmic; NARS1; asparagine tRNA ligase 1, cytoplasmic; asparaginyl-tRNA synthetase, cytoplasmic; ASNRS; |
| <b>Gene ID</b>         | 4677                                                                                                                                                                                                           |
| <b>mRNA Refseq</b>     | NM_004539                                                                                                                                                                                                      |
| <b>Protein Refseq</b>  | NP_004530                                                                                                                                                                                                      |
| <b>MIM</b>             | 108410                                                                                                                                                                                                         |

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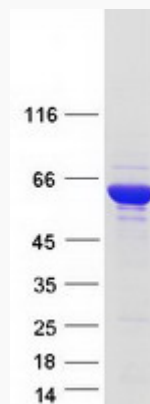
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UniProt ID

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SDS-PAGE

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