

## Recombinant Human NARS

**Cat. No.** NARS-30281TH    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant fragment of Human NARS with N terminal proprietary tag. Predicted MW 37.40 kDa.
<b>Species</b>	Human
<b>Source</b>	Wheat Germ
<b>ProteinLength</b>	107 amino acids
<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 Weight</b>	37.400kDa inclusive of tags
<b>Form</b>	Liquid
<b>Purity</b>	Proprietary Purification
<b>Storage buffer</b>	pH: 8.00 Constituents: 0.3% Glutathione, 0.79% Tris HCl
<b>Storage</b>	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.

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**Sequences of amino acids** PVEIKSFYMQRCPEDSRLTESVDVLMPNVGEIVGGSMRIF DSEEILAGYKREGIDPT PYYWYTDQRKYGTCPHGGYGLGL ERFLTWILNRYHIRDVCLYPRFVQRCT

**Sequence Similarities** Belongs to the class-II aminoacyl-tRNA synthetase family.

## GENE INFORMATION

**Gene Name** NARS asparaginyl-tRNA synthetase [ Homo sapiens ]

**Official Symbol** NARS

**Synonyms** NARS; asparaginyl-tRNA synthetase; asparaginyl-tRNA synthetase, cytoplasmic; asparagine tRNA ligase 1; cytoplasmic; NARS1;

**Gene ID** 4677

**mRNA Refseq** NM\_004539

**Protein Refseq** NP\_004530

**MIM** 108410

**Uniprot ID** O43776

**Chromosome Location** 18q21.31

**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; Cytosolic tRNA aminoacylation, organism-specific biosystem;

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**Function**

ATP binding; asparagine-tRNA ligase activity; ligase activity; nucleic acid binding; nucleotide binding;

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