

## Recombinant Human NARS protein, His-tagged

Cat. No. NARS-40H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant human NARS, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>Description</b>	NARS also known as asparagine--tRNA ligase, cytoplasmic. This protein acts as an enzyme. It is known to catalyze the following reaction: ATP + L-asparagine + tRNA(Asn) = AMP + diphosphate + L-asparaginyl-tRNA(Asn). 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>Form</b>	Liquid. In Phosphate Buffered Saline (pH7.4) containing 10% glycerol
<b>Molecular Mass</b>	65.3kDa (571aa)
<b>AA Sequence</b>	MGSSHHHHHH SSGLVPRGSH MGSMVLAELY VSDREGSDAT GDGTKEKPFK TGLKALMTVG KEPFPTIYVD SQKENERWNV ISKSQLKNIKKMWHREQMKS ESREKKEAED SLRREKNLEE AKKITIKNDP SLPEPKCVKI GALEGYRGQR VKVFGWVHRL RRQGKNLMFL VLRDGTGYLQ CVLADELQCQ YNGVLLSTES SVAVYGMLNL TPKGKQAPGG HELSCDFWEL IGLAPAGGAD NLINEESDVD VQLNNRHMMI RGENMSKILKARSMVTRCFR DHFFDRGYE VTPPTLVQTQ

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VEGGATLFKL DYFGEEAFLT QSSQLYLETC LPALGDVFCI AQSRYAEQSR  
TRRHAEYTH VEAACPFLTF DDLLNRLEDL VCDVVDRIK SPAGSIVHEL  
NPNFQPPKRP FKRMNYSDAI VWLKEHDVKK EDGTFYEFGE  
DIPEAPERLMTDTINEPILL CRFPVEIKSF YMQRCPEDSR LTESVDVLM  
NVGEIVGGSM RIFDSEEILA GYKREGIDPT PYYWYTDQRK YGTCPHGGYG  
LGLERFLTWI LNRYHIRDVC LYPRFVQRCT P

**Purity** >80% by SDS - PAGE

**Storage** Can be stored at +4 centigrade short term (1-2 weeks). For long term storage, aliquot and store at -20 centigrade or -70 centigrade. Avoid repeated freezing and thawing cycles.

**Concentration** 0.25 mg/ml (determined by Absorbance at 280nm)

## GENE INFORMATION

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

**Official Symbol** NARS

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

**Gene ID** 4677

**mRNA Refseq** NM\_004539

**Protein Refseq** NP\_004530

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<b>MIM</b>	108410
<b>UniProt ID</b>	O43776
<b>Chromosome Location</b>	18q21.31
<b>Pathway</b>	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; Gene Expression, organism-specific biosystem; tRNA Aminoacylation, organism-specific biosystem;
<b>Function</b>	ATP binding; asparagine-tRNA ligase activity; ligase activity; nucleic acid binding; nucleotide binding;

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