

Recombinant Human NARS protein, His-tagged

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

SPECIFICATION

Product Overview	Recombinant human NARS, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Species	Human
Source	E.coli
Description	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.
Form	Liquid. In Phosphate Buffered Saline (pH7.4) containing 10% glycerol
Molecular Mass	65.3kDa (571aa)
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSMVLAELY VSDREGSDAT GDGTKEKPFK TGLKALMTVG KEPFPTIYVD SQKENERWNV ISKSQLKNIKKMWHREQMKS ESREKKEAED SLRREKNLEE AKKITIKNDP SLPEPKCVKI GALEGYRGQR VKVFGWVHRL RRQGKNLMFL VLRDGTGYLQ CVLADELQCQC YNGVLLSTES SVAVYGMLNL TPKGKQAPGG HELSCDFWEL IGLAPAGGAD NLINEESDVD VQLNNRHMMI RGENMSKILKARSMVTRCFR DHFFDRGYE VTPPTLVQTQ

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VEGGATLFLKL DYFGEEAFLT QSSQLYLETC LPALGDVFCI AQSRYAEQSR
 TRRHAEYTH VEAECPLTF DLLNRLEDL VCDVDRILK SPAGSIVHEL
 NPNFQPPKRP FKRMNYSDAI VWLKEHDVKK EDGTFYEFGE
 DIPEAPERLMTDTINEPILL CRFPVEIKSF YMQRCPEDSR LTESVDVLMF
 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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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; Gene Expression, organism-specific biosystem; tRNA Aminoacylation, organism-specific biosystem;
Function	ATP binding; asparagine-tRNA ligase activity; ligase activity; nucleic acid binding; nucleotide binding;

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