

Recombinant human NARS protein

Catalog Number: IBATGP3157



PRODUCT INFORMATION

Expression system

E.coli

Domain

1-548aa

UniProt No.

O43776

NCBI Accession No.

NP_004530

Alternative Names

Asparagine--tRNA ligase cytoplasmic, ASNRS, NARS1

PRODUCT SPECIFICATION

Molecular Weight

65.3 kDa (571aa)

Concentration

0.25mg/ml (determined by absorbance at 280nm)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

Purity

> 85% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

NARS also known as asparagine--tRNA ligase, cytoplasmic. This protein acts as an enzyme. It is known to catalyze the following reaction: $ATP + L\text{-asparagine} + tRNA(\text{Asn}) = AMP + \text{diphosphate} + L\text{-asparaginyl-tRNA}(\text{Asn})$. 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. Recombinant human NARS, fused to His-tag at N-terminus, was expressed in E. coli and purified by using

For research use only. This product is not intended or approved for human, diagnostics or veterinary use.

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conventional chromatography techniques

Amino acid Sequence

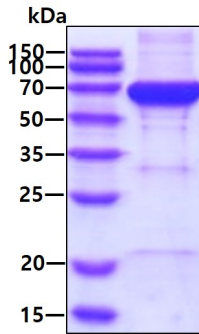
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SQKENERWNV ISKSQLKNIK KMWHREQMKS ESREKKEAED SLRREKNLEE AKKITIKNDP SLPEPKCVKI GALEGYRGQR
VKVFGVWHRL RRQGKNLMFL VLRDGTGYLQ CVLADELQCQ YNGVLLSTES SVAVYGMLNL TPKGKQAPGG HELSCDFWEL
IGLAPAGGAD NLINEESDVD VQLNNRHMMI RGENMSKILK ARSMVTRCFR DHFFDRGYE VTPPTLVQTQ VEGGATLFKL
DYFGEEAFLT QSSQLYLETC LPALGDVFCI AQSRYAEQSR TRRHLEAYTH VEAACPFLTF DLLNRLEDL VCDVVDRILK
SPAGSIVHEL NPNFQPPKRP FKRMNYSDAI VWLKEHDVKK EDGTFYEFGE DIPEAPERLM TDTINEPILL CRFPVEIKSF
YMQRCPEDSR LTESVDVLMV NVGEIVGGSM RIFDSEEILA GYKREGIDPT PYYWYTDQRK YGTCPHGGYG LGLERFLTWI
LNRYHIRDVC LYPRFVQRCT P

General References

Beaulande M., et al. (1998) Nucleic Acids. 26(2):521-4.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain

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