NARS, 1-548aa, Human, His tag, E.coli

Cat.NO.: TP03098

3th Edition

Synonyms:ASNRS, NARS1

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. Recombinant human NARS, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques

Form: Liquid. In Phosphate Buffered Saline (pH7.4) containing 10% glycerol

Molecular Weight:65.3kDa (571aa)

Sequences:
MGSSHHHHHHSSGLVPRGSHMGSMVLAELYVSDREGSDATGDGTKEKPFKTGLKALMTVGKEPFPTIYVDSQKE
NERWNVISKSQLKNIKKMWHREQMKSESREKKEAEDSLRREKNLEEAKKITIKNDPSLPEPKCVKIGALEGYRGQR
VKVFGWVHRLRRQGKNLMFLVLRDGTGYLQCVLADELCQCYNGVLLSTESSVAVYGMLNLTPKGKQAPGGHELS
CDFWELIGLAPAGGADNLINEESDVDVQLNNRHMMIRGENMSKILKARSMVTRCFRDHFFDRGYYEVTPPTLVQTQ
VEGGATLFKLDYFGEEAFLTQSSQLYLETCLPALGDVFCIAQSYRAEQSRTRRHLAEYTHVEAECPFLTFDDLLNRL
EDLVCDVVDRILKSPAGSIVHELNPNFQPPKRPFKRMNYSDAIVWLKEHDVKKEDGTFYEFGEDIPEAPERLMTDTI
NEPILLCRFPVEIKSFYMQRCPEDSRLTESVDVLMPNVGEIVGGSMRIFDSEEILAGYKREGIDPTPYYWYTDQRKY
GTCPHGGYGLGLERFLTWILNRYHIRDVCLYPRFVQRCTP

Purity:> 95% by HPLC

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

Endotoxin Level:<1.0 EU per 1 ug of protein (determined by LAL method)

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