
Product Data Sheet

Product Name: NARS Human
 Cat. No.: GP21977
 Batch No.: 1

Product Data

Purity	>98%	Source	E.coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	NARS; Asparaginyl-TRNAsynthetase; AsnRS;EC 6.1.1.22; Asparaginyl-TRNA Synthetase; Cytoplasmic; Asparagine TRNALigase 1; Cytoplasmic; Asparagine--TRNA Ligase; Cytoplasmic; AsparagineTRNA Ligase 1; Cytoplasmic; NARS1.		
Amino Acid Sequence	<p>GSSHHHHHH SSSLVPRGSH MGSMVLAELY VSDREGSDAT GDGTKEKPFK TGLKALMTVG KEFPPTIYVDSQKENERWNV ISKSQLKNIK KMWHREQMKS ESREKKEAED SLRREKNLEE AKKITIKNDP SLPEPKCVKIGALEGYRGQR VKVFGWVHRL RRQGKNLMFL VLRDGTGYLQ CVLADELQCQ YNGVLLSTES SVAVYGMLNL TPKGKQAPGG HELSCDFWELIGLAPAGGAD NLINEESDVD VQLNNRHMMI RGENMSKILK ARSMVTRCFR DHFFDRGYE VTPPTLVQTQVEGGATLFLK DYFGEEAFLT QSSQLYLETC LPALGDVFCI AQSYRAEQSR TRRHLEAYTH VEAACPFLTF DLLLNRLDL VCDVVDRIK SPAGSIVHEL NPNFQPPKRPFKRMNYSDAI VWLKEHDVKK EDGTFYEFGE DIPEAPERLM TDTINEPILL CRFPVEIKSF YMQRCPEDSRLTESVDVLM NVGEIVGGSM RIFDSEEILA GYKREGIDPT PYYWYTDQRK YGTCPHGGYG LGLERFLTWILNRYHIRDVC LYPRFVQRCT P.</p>		
Formulation	NARSprotein solution (0.25mg/ml) containing Phosphate Buffered Saline (pH7.4) and 10%glycerol.		

Introduction

Aminoacyl-tRNA synthetases are a class of enzymes which charge tRNAs with their cognate amino acids. Asparaginyl-tRNA synthetase (NARS) is localized to the cytoplasm and is a member of the class II family of tRNA synthetases. The N-terminal domain characterizes the signature sequence for the eukaryotic asparaginyl-tRNA synthetases.

Stability

Caution: Product has not been fully validated for medical applications. For research use only.

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Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

NARS Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 571 amino acids (1-548 a.a) and having a molecular mass of 65.3kDa. NARS is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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