
Product Data Sheet

Product Name: AsnRS
 Cat. No.: GP21420
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Asparagine--tRNA ligase; cytoplasmic (EC:6.1.1.22); Asparaginyl-tRNA synthetase; AsnRS; Potentially protective 63 kDa antigen.		
Amino Acid Sequence	<p>MGSSHHHHHH SGLVPRGSH MTVYICPETG DDGNDGSELK PLRTLYQAMI ITKSSKGDFL IRTKKDGKQV WEAASKTALK KSWKRYEQEM LKNEKVAAM LEKDATEVGV KAALEEAKKV QIELDTSLSY ITGVKIRD LV KHRNERVCIK GWIHRMRRQG KSLMFFILRD GTGFLQVLLM DKLCQTYDAL TVNTECTVEI YGAIKEVPEG KEAPNGHELI ADFWKIIGNA PSGGIDNVLN EEASVDKMLD NRHLVIRGEN AAALLRLRAA ATRAMREHFY NAGYVEVAPP TLVQTQVEGG STLFNLDYFG EQSFLTQSSQ LYLETCIPTL GDVFLHCSVL QGGKISHSST LAEYAHVEAE CPFITLDDLM EKIEELVCDT VDRLLADEEA KKLLEHINPK FQPPERPFLR MEYKDAIKWL QEHNVENEFV NTFTYGEDIA EAAERFMTDT INKPILLNRF PSEIKAFYMQ RDAKDNTLTE SVDLLMPGVG EIVGGSMRIW KFDELSKAFK NVEIDPKPYY WYLDQRLYGT CPHGGYGLGL ERFICWLTNT NHIRDVCLYP RFVGRCPV.</p>		
Formulation	AsnRS 0.2µm filtered solution containing 20mM HEPES, pH7.4, 100mM NaCl, 5mM MgCl ₂ , 5mM b-Mercaptoethanol and 10 % Glycerol.		

Introduction

The AsnRS enzyme is a member of the ligases family, specifically those forming carbon-oxygen bonds in aminoacyl-tRNA and related compounds. An asparagine-tRNA ligase is an enzyme which catalyzes the chemical reaction: ATP + L-asparagine + tRNA^{Asn} AMP + diphosphate + L-asparaginyl-tRNA^{Asn}. The three substrates of the AsnRS enzyme are ATP, L-asparagine, and tRNA(Asn), whereas its three products are AMP, diphosphate, and L-asparaginyl-tRNA(Asn).

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

AsnRS Brugia Malayi Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 568 amino acids (including a 6xHis Tag at N-terminus) and having a molecular mass of 64.5kDa. The AsnRS is purified by proprietary chromatographic techniques.

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