

ASNA1 Human

arsA Arsenite Transporter, ATP-Binding, Homolog 1 Human Recombinant
RCP0129

Product Overview

Name ASNA1 Human

Description

arsA Arsenite Transporter, ATP-Binding, Homolog 1 Human Recombinant

Accession (Primary) [O43681](#)

Synonyms

Asparagine--tRNA ligase, cytoplasmic (EC:6.1.1.22), Asparaginyl-tRNA synthetase, AsnRS, Potentially protective 63 kDa antigen.

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 + tRNAAsn AMP + diphosphate + L-asparaginyl-tRNAAsn. 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).

Source

Escherichia Coli.

Physical Appearance

Sterile filtered colorless solution.

Formulation

AsnRS 0.2 µm filtered solution containing 20mM HEPES, pH7.4, 100mM NaCl, 5mM MgCl₂, 5mM β-Mercaptoethanol and 10 % Glycerol.

Stability

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.

Purity

Greater than 95.0% as determined by SDS-PAGE.

Amino acid sequence

MGSSHHHHHH SGLVPRGSH MTVYICPETG DDGNDGSELK PLRTLYQAMI ITKSSKGDFL IRTKKDGKQV
WEAASKTALK KSWKRYEQEM LKNEKVAAM LEKDATEVGV KAALEEAKKV QIELDTSLSY ITGVKIRDLV

KHRNERVCIK GWIHRMRRQG KSLMFFILRD GTGFLQVLLM DKLCQTYDAL TVNTECTVEI YGAIKEVPEG
KEAPNGHELI ADFWKIIGNA PSGGIDNVLN EEASVDKMLD NRHLVIRGEN AAALLRLRAA ATRAMREHFY
NAGYVEVAPP TLVQTQVEGG STLFNLDYFG EQSFLTQSSQ LYLETCTPTL GDVFLHCSVL QGGKISHSST
LAEYAHVEAE CPFITLDDLM EKIEELVCDT VDRLLADEEA KKLLEHINPK FQPPERPFLR MEYKDAIKWL
QEHNVENEFG NTFTYGEDIA EAAERFMTDT INKPILLNRF PSEIKAFYMQ RDAKDNTLTE SVDLLMPGVG
EIVGGSMRIW KFDELSKAFK NVEIDPKPYY WYLDQRLYGT CPHGGYGLGL ERFICWLTNT NHIRDVCLYP
RFVGRCVP.

Precautions

ASNA1 Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: ([O43681](#))