

32-6673: AsnRS

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

Description

Source: Escherichia Coli.

Sterile filtered colorless solution.

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).

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.

Product Info

Amount : 10 µg / 50 µg

Purification : Greater than 95.0% as determined by SDS-PAGE.

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

Storage condition : 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.

Amino Acid : MGSSHHHHHH SSGLVPRGSH MTVYICPETG DDGNDGSELK PLRTLYQAMI ITKSSKGDFL IRTKKDGKQV WEAASKTALK KSWKRYEQEM LKNEKVAAMK LEKDATEVGV KAALKEAKKV 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 QEHNVENEFV NTFTYGEDIA EAAERFMTDT INKPILLNRF PSEIKAFYMQ RDAKDNTLTE SVDLLMPGVG EIVGGSMRIW KFEDESKAFK NVEIDPKPYY WYLDQRLYGT CPHGGYGLGL ERFICWLTNT NHIRDVCLYP RFVGRCPV.