

Recombinant Human ArsA Arsenite Transporter, ATP-binding, Homolog 1 (bacterial), His-tagged

Cat. No. ASNA1-7183H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human ASNA1 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques. MW: 41.2kDa.
Species	Human
Source	E.coli
ProteinLength	1-348aa
Description	ASNA1, also as known as ARSA and TRC40, belongs to the arsA ATPase family. ASNA1 is the human homolog of the bacterial arsA gene. In E. coli, ArsA ATPase is the catalytic component of a multisubunit oxyanion pump that is responsible for resistance to arsenicals and antimonials. ATPase required for the post-translational delivery of tail-anchored (TA) proteins to the endoplasmic reticulum.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol.
Molecular Mass	41.2kDa (371aa) confirmed by MALDI-TOF
AA Sequence	MGSSHHHHH SSGLVPRGSH MGSMAGVAG WGVEAEFED APDVEPLEPT LSNIEQRSL KWIFVGGKGG VGKTTCSL AVQLSKGRES VLIISTDPAH NISDAFDQKF SKVPTKVKG DNLFAMEIDP SLGVAELPDE FFEEDNMLSM GKKMMQEAMS AFGIDEAMS YAEVMRLVKG MNFSVVVFD TPTGHTLRLL

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NFPTIVERGL GRLMQIKNQI SPFISQMCNM LGLGDMNADQ LASKLEETLP
 VIRSVSEQFK DPEQTTFCIV CIAEFLSLYE TERLIQELAK CKIDTHNIIV
 NQLVFPDPEK PCKMCEARHK IQAKYLDQME DLYEDFHIVK LPLLPEVRG
 ADKVNTFSAL LLEPYKPPSA Q

Purity >90% by SDS - PAGE

Applications SDS-PAGE

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.

Concentration 1 mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name [ASNA1 arsA arsenite transporter, ATP-binding, homolog 1 \(bacterial\) \[Homo sapiens \]](#)

Official Symbol ASNA1

Synonyms ASNA1; arsA arsenite transporter, ATP-binding, homolog 1 (bacterial); arsA (bacterial) arsenite transporter, ATP binding, homolog 1; ATPase ASNA1; ARSA I; GET3; golgi to ER traffic 3 homolog (S. cerevisiae); transmembrane domain recognition complex; 40kDa; TRC40; arsenite-stimulated ATPase; arsenical pump-driving ATPase; golgi to ER traffic 3 homolog; transmembrane domain recognition complex, 40kDa; transmembrane domain recognition complex 40 kDa ATPase subunit; ARSA1; ARSA-I; ASNA-I; hASNA-I; MGC3821;

Gene ID [439](#)

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mRNA Refseq	NM_004317
Protein Refseq	NP_004308
MIM	601913
UniProt ID	O43681
Chromosome Location	19p13.13
Function	ATP binding; ATPase activity; arsenite transmembrane transporter activity; hydrolase activity; metal ion binding; nucleotide binding; transporter activity;

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