

# Recombinant human ASNA1 protein

Catalog Number: ATGP1751

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-348aa

### UniProt No.

O43681

### NCBI Accession No.

NP\_004308

### Alternative Names

ATPase ASNA1, ARSA-I, ARSA1, ASNA-I, GET3, hASNA-I, TRC40

## PRODUCT SPECIFICATION

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### Molecular Weight

41.2 kDa (371aa) confirmed by MALDI-TOF

### Concentration

1mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol

### Purity

> 90% by SDS-PAGE

### Tag

His-Tag

### Application

SDS-PAGE

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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### 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. Recombinant human ASNA1 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

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## Amino acid Sequence

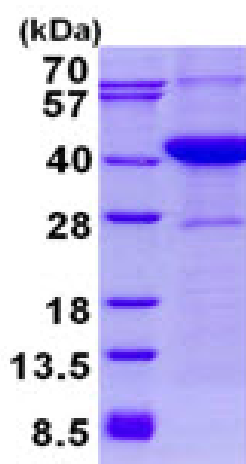
<MGSSHHHHHH SSGLVPRGSH MGS>MAAGVAG WGVEAEFED APDVEPLEPT LSNIEQRSL KWIFVGGKGG  
VGKTTCSL AVQLSKGRES VLIISTDPAH NISDAFDQKF SKVPTKVKG Y DNLFAMEIDP SLGVAELPDE FFEEDNMLSM  
GKKMMQEAMS AFGIDEAMS YAEVMRLVKG MNFSVVVFDT APTGHTLRL NFP TIVERGL GRLMQIKNQI SPFISQMCNM  
LGLGDMNADQ LASKLEETLP VIRSVSEQFK DPEQTTFCV CIAEFLSLYE TERLIQELAK CKIDTHNIIV NQLVFPDPEK  
PCKMCEARHK IQAKYLDQME DLYEDFHIVK LPLLPEVVRG ADKVNTFSAL LLEPYKPPSA Q

## General References

Stefanovic S., et al. (2007) Cell 128:1147-1159  
Favaloro V., et al. (2008) J. Cell Sci. 121:1832-1840

## DATA

### SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)