Recombinant human ASNA1 protein

Catalog Number: ATGP1751

PRODUCT INFORMATION

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

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

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

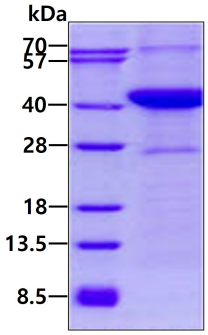
<MGSSHHHHHH SSGLVPRGSH MGS>MAAGVAG WGVEAEEFED APDVEPLEPT LSNIIEQRSL KWIFVGGKGG VGKTTCSCSL AVQLSKGRES VLIISTDPAH NISDAFDQKF SKVPTKVKGY DNLFAMEIDP SLGVAELPDE FFEEDNMLSM GKKMMQEAMS AFPGIDEAMS YAEVMRLVKG MNFSVVVFDT APTGHTLRLL NFPTIVERGL GRLMQIKNQI SPFISQMCNM LGLGDMNADQ LASKLEETLP VIRSVSEQFK DPEQTTFICV CIAEFLSLYE TERLIQELAK CKIDTHNIIV NQLVFPDPEK PCKMCEARHK IQAKYLDQME DLYEDFHIVK LPLLPHEVRG 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.