

## ASNA1 Human

**Description:**ASNA1 Human Recombinant produced in E. coli is a single polypeptide chain containing 371 amino acids (1-348) and having a molecular mass of 41.2 kDa. ASNA1 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

**Catalog #:**PRPS-1254

For research use only.

**Synonyms:**ArsA Arsenite Transporter ATP-Binding Homolog 1 (Bacterial), Arsenical Pump-Driving ATPase, Transmembrane Domain Recognition Complex 40kDa, TRC40. ASNA-I, ATPase ASNA1, ARSA-I, GET3, Golgi To ER Traffic 3 Homolog, Arsenite-Stimulated ATPase, Transmembrane

**Source:**E.coli.

**Physical Appearance:**Sterile Filtered colorless solution.

**Amino Acid Sequence:**MGSSHHHHHH SSGLVPRGSH MGSMAAGVAG WGVEAEFED  
APDVEPLEPT LSNIEQRSL KWIFVGGKGG VGKTTCSL AVQLSKGRES VLIISTDPAH  
NISDAFDQKF SKVPTKVKG Y DNL FAMEIDP SLGVAELPDE FFEEDNMLSM GKKMMQEAMS  
AFPGIDEAMS YAEVMRLVKG MNFSVVVFD T APTGHTLRLL NFPTIVERGL GRMLQIKNQI  
SPFISQMCNM LG

**Purity:**Greater than 90% as determined by SDS-PAGE.

### Formulation:

The ASNA1 solution (1mg/1ml) contains 20mM Tris-HCl buffer (pH 8.0) 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.

### Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

### Introduction:

ArsA Arsenite Transporter, ATP-Binding, Homolog 1 (ASNA1) is a part of the arsA ATPase family. ASNA1 is the human homolog of the bacterial arsA gene. ArsA ATPase is the catalytic component of a multisubunit oxyanion pump In E.coli, which is in charge for resistance to arsenicals and antimonials. ASNA1 is also a main component of a transmembrane domain (TMD) recognition complex (TRC) which is involved in the post-translational delivery of tail-anchored (TA) proteins from the cytosol to the endoplasmic reticulum (ER).

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