
Product Data Sheet

Product Name: ASNA1 Human
 Cat. No.: GP22790
 Batch No.: 1

Product Data

Purity	>98%	Source	E.coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.

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 Domain Recognition Complex 40 KDa ATPase Subunit; HASNA-I; HARSA-I; ARSA; ARSA1; EC 3.6.3.16; EC 3.6.-.-.

Amino Acid Sequence
 MGSSHHHHH SSGLVPRGSH MGSMAAGVAG WGVEAEFED APDVEPLEPT
 LSNIIEQRSL KWIFVGGKGG VGKTTCSL AVQLSKGRES VLIISTDPAH
 NISDAFDQKF SKVPTKVKG DNLFAMEIDP SLGVAELPDE FFEEDNMLSM
 GKKMMQEAMS AFGIDEAMS YAEVMRLVKG MNFSVVVFDTP APTGHTLRL
 NFPTIVERGL GRLMQIKNQI SPFISQMCNM LGLGDMNADQ LASKLEETLP
 VIRSVSEQFK DPEQTTFCV CIAEFLSLYE TERLIQELAK CKIDTHNIIV
 NQLVFPDPEK PCKMCEARHK IQAKYLDQME DLYEDFHIVK LPLLPHVIRG
 ADKVNTFSAL LLEPYKPPSA Q.

Formulation
 The ASNA1 solution (1mg/1ml) contains 20mM Tris-HCl buffer (pH 8.0) and 10% glycerol.

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).

Caution: Product has not been fully validated for medical applications. For research use only.

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Address: 10292 Central Ave. #205, Montclair, CA, USA

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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.

Background

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.

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