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ASNA1 Human

Catalog #:PRPS-1254

For research use only.

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.

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 WGVEAEEFED APDVEPLEPT LSNIIEQRSL KWIFVGGKGG VGKTTCSCSL AVQLSKGRES VLIISTDPAH NISDAFDQKF SKVPTKVKGY DNLFAMEIDP SLGVAELPDE FFEEDNMLSM GKKMMQEAMS AFPGIDEAMS YAEVMRLVKG MNFSVVVFDT APTGHTLRLL NFPTIVERGL GRLMQIKNQI 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 drµgs, 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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