

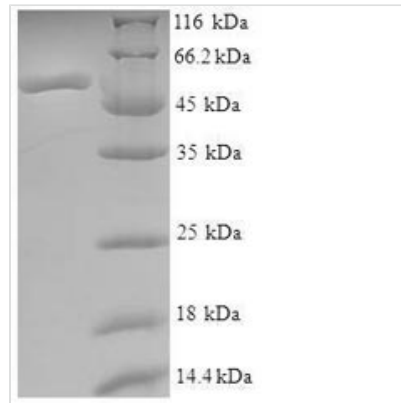


Recombinant Human ATPase ASNA1 (ASNA1)

Product Code	CSB-EP002218HU
Relevance	ATPase required for the post-translational delivery of tail-anchored (TA) proteins to the endoplasmic reticulum. Recognizes and selectively binds the transmembrane domain of TA proteins in the cytosol. This complex then targets to the endoplasmic reticulum by membrane-bound receptors, where the tail-anchored protein is released for insertion. This process is regulated by ATP binding and hydrolysis. ATP binding drives the homodimer towards the closed dimer state, facilitating recognition of newly synthesized TA membrane proteins. ATP hydrolysis is required for insertion. Subsequently, the homodimer reverts towards the open dimer state, lowering its affinity for the membrane-bound receptor, and returning it to the cytosol to initiate a new round of targeting. May be involved in insulin signaling.
Abbreviation	Recombinant Human ASNA1 protein
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	O43681
Alias	Arsenical pump-driving ATPase
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	≥ 90% as determined by SDS-PAGE.
Sequence	AAGVAGWGWVEAEFEEDAPDVEPLEPTLSNIIQRSLKWIFVGGKGGVGGKTTCS CSLAVQLSKGRESVLIISTDPAHNISDAFDQKFSKVPTKVKGYDNLFAMEIDPSL GVAELPDEFFFEEDNMLSMGKKMMQEAMSAFPGIDEAMSYAEVMRLVKGMNF SVVVFDTAPTGHTRLNLFPTIVERGLGRMLQIKNQISPFISQMCNMLGLGDMN ADQLASKLEETLPVIRSVSEQFKDPEQTTFCVIAEFLSLYETERLIQELAKCKI DTHNIIVNQLVFPDPEKPKMCEARHKIQAKYLDQMEDLYEDFHIVKLPPLPHE VRGADKVNTFSALLLEPYKPPSAQ
Research Area	Transport
Source	E.coli
Target Names	ASNA1
Expression Region	2-348aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 6xHis-SUMO-tagged
Mol. Weight	54.7kDa
Protein Length	Full Length of Mature Protein



Image



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.

Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.