

Recombinant Human ATP1A1 Protein, His-tagged

Cat. No. ATP1A1-460H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human ATP1A1(His493~Ala660) fused with His tag at N-terminal was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	His493~Ala660
Description	The protein encoded by this gene belongs to the family of P-type cation transport ATPases, and to the subfamily of Na ⁺ /K ⁺ -ATPases. Na ⁺ /K ⁺ -ATPase is an integral membrane protein responsible for establishing and maintaining the electrochemical gradients of Na and K ions across the plasma membrane. These gradients are essential for osmoregulation, for sodium-coupled transport of a variety of organic and inorganic molecules, and for electrical excitability of nerve and muscle. This enzyme is composed of two subunits, a large catalytic subunit (alpha) and a smaller glycoprotein subunit (beta). The catalytic subunit of Na ⁺ /K ⁺ -ATPase is encoded by multiple genes. This gene encodes an alpha 1 subunit. Multiple transcript variants encoding different isoforms have been found for this gene.
Form	PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Molecular Mass	22.0kDa
Endotoxin	<1.0EU per 1g (determined by the LAL method)

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Purity	> 95%
Applications	Positive Control; Immunogen; SDS-PAGE; WB. If bio-activity of the protein is needed, please check active protein.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Reconstitution	Reconstitute in PBS or others.

GENE INFORMATION

Gene Name	ATP1A1 ATPase, Na ⁺ /K ⁺ transporting, alpha 1 polypeptide [Homo sapiens]
Official Symbol	ATP1A1
Synonyms	ATP1A1; ATPase, Na ⁺ /K ⁺ transporting, alpha 1 polypeptide; sodium/potassium-transporting ATPase subunit alpha-1; sodium pump 1; Na ⁺ /K ⁺ ATPase 1; Na,K-ATPase alpha-1 subunit; sodium pump subunit alpha-1; Na ⁺ , K ⁺ ATPase alpha subunit; Na(+)/K(+) ATPase alpha-1 subunit; Na, K-ATPase, alpha-A catalytic polypeptide; sodium-potassium-ATPase, alpha 1 polypeptide; Na,K-ATPase catalytic subunit alpha-A protein; MGC3285; MGC51750;
Gene ID	476
mRNA Refseq	NM_000701

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Protein Refseq	NP_000692
MIM	182310
UniProt ID	P05023

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