# Recombinant Human ATP1A1 Protein, His-tagged

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

## Specification

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| **Product Overview** | Recombinant Human ATP1A1(His493~Ala660) fused with His tag at N-terminal was expressed in E. coli. |
| **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. |
| **Source** | E. coli |
| **Species** | Human |
| **Tag** | His |
| **Form** | PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300. |
| **Molecular Mass** | 22.0kDa |
| **Protein length** | His493~Ala660 |
| **Endotoxin** | <1.0EU per 1μg (determined by the LAL method) |
| **Purity** | >95% |
| **Applications** | Positive Control; Immunogen; SDS-PAGE; WB.<br>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


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| **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 |
| **Protein Refseq** | NP_000692 |
| **MIM** | 182310 |
| **UniProt ID** | P05023 |


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