

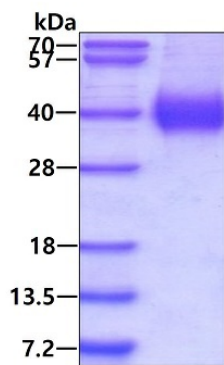
Bioactive

# ATP1B2 (Human) Recombinant Protein

Catalog # P7902

Size 50 ug

## Applications



SDS-PAGE analysis of ATP1B2 (Human) Recombinant Protein.

## Specification

|                             |                                                                                                                                                                                                                                                         |
|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Description</b>  | Human ATP1B2 (P14415, 68 a.a. - 290 a.a.) partial recombinant protein with His tag expressed in Baculovirus.                                                                                                                                            |
| <b>Sequence</b>             | ADPDHTPKYQDRLATPGLMIRPKTENLDVIVNVSDTESWDQHVQKLNKFLEPYNDSIQAQKNDVC<br>RPGRYEQPDNGVLNYPKRACQFNRTQLGNC SGIGDSTHYGYSTGQPCVFIKMNRVINFYAGANQ<br>SMNVT CAGKRDEDAENLGNFVMFPANGNIDLMYFPYYGKKFHVNYTQPLVAVKFLNVT PNVEVN<br>VECRINAANIATDDDERDKFAGRVAFKLRINKTHHHHHH |
| <b>Host</b>                 | Viruses                                                                                                                                                                                                                                                 |
| <b>Theoretical MW (kDa)</b> | 26.4                                                                                                                                                                                                                                                    |
| <b>Form</b>                 | Liquid                                                                                                                                                                                                                                                  |
| <b>Preparation Method</b>   | Baculovirus expression system                                                                                                                                                                                                                           |
| <b>Purity</b>               | > 90% as analyzed by SDS-PAGE.                                                                                                                                                                                                                          |
| <b>Endotoxin Level</b>      | < 1 EU/ug of protein by the LAL method.                                                                                                                                                                                                                 |

|                                |                                                                                                                                                                                           |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Activity</b>                | Specific activity is > 3000pmol/min/ug, and is defined as the amount of enzyme that hydrolyze 1.0 pmole of Adenosine 5-triphosphate to phosphate per minute per minute at pH 7.5 at 25°C. |
| <b>Quality Control Testing</b> | SDS-PAGE Stained with Coomassie Blue.<br>SDS-PAGE analysis of ATP1B2 (Human) Recombinant Protein.                                                                                         |
| <b>Recommend Usage</b>         | Biological Activity<br>SDS-PAGE<br>The optimal working dilution should be determined by the end user.                                                                                     |
| <b>Storage Buffer</b>          | In PBS, pH 7.4 (10% glycerol)                                                                                                                                                             |
| <b>Storage Instruction</b>     | Store at 4°C for 1 week. For long term storage store at -20°C to -80°C.<br>Aliquot to avoid repeated freezing and thawing.                                                                |

## Applications

- Functional Study
- SDS-PAGE

## Gene Info — ATP1B2

|                           |                                                                          |
|---------------------------|--------------------------------------------------------------------------|
| <b>Entrez GeneID</b>      | <a href="#">482</a>                                                      |
| <b>Protein Accession#</b> | <a href="#">P14415</a>                                                   |
| <b>Gene Name</b>          | ATP1B2                                                                   |
| <b>Gene Alias</b>         | AMOG                                                                     |
| <b>Gene Description</b>   | ATPase, Na <sup>+</sup> /K <sup>+</sup> transporting, beta 2 polypeptide |
| <b>Omim ID</b>            | <a href="#">182331</a>                                                   |
| <b>Gene Ontology</b>      | <a href="#">Hyperlink</a>                                                |

## Gene Summary

The protein encoded by this gene belongs to the family of Na<sup>+</sup>/K<sup>+</sup> and H<sup>+</sup>/K<sup>+</sup> ATPases beta chain proteins, and to the subfamily of Na<sup>+</sup>/K<sup>+</sup> -ATPases. Na<sup>+</sup>/K<sup>+</sup> -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 beta subunit regulates, through assembly of alpha/beta heterodimers, the number of sodium pumps transported to the plasma membrane. The glycoprotein subunit of Na<sup>+</sup>/K<sup>+</sup> -ATPase is encoded by multiple genes. This gene encodes a beta 2 subunit. [provided by RefSeq]

## Other Designations

Na<sup>+</sup>/K<sup>+</sup> -ATPase beta 2 subunit|Na, K-ATPase beta-2 polypeptide|adhesion molecule on gliasodium/potassium-dependent ATPase beta-2 subunit|sodium/potassium-transporting ATPase beta-2 chain

## Pathway

- [Cardiac muscle contraction](#)

## Disease

- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Genetic Predisposition to Disease](#)
- [Graves Disease](#)
- [Hypokalemic Periodic Paralysis](#)
- [Lung Neoplasms](#)
- [Ovarian cancer](#)
- [Ovarian Neoplasms](#)
- [Pulmonary Disease](#)
- [Urinary Bladder Neoplasms](#)
- [Werner syndrome](#)