

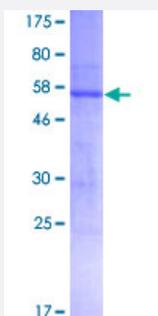
Full-Length

ATP1B3 (Human) Recombinant Protein (P01)

Catalog # H00000483-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human ATP1B3 full-length ORF (AAH11835, 1 a.a. - 279 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MTKNEKKSLNQSLAEWKLFYINPTTGEFLGRTAKSWGLILLFYLVFYGFLLAALFSFTMWVMLQTLN
 DEVPKYRDQIPSPGLMVFPKPVTALEYTFSRSDPTS YAGYIEDLKKFLKPYTLEEQKNLTVCPDGA
 LFEQKGPVYVACQFPISLLQACSGMNDPFDGYSQGNPCILVKMNRIIGLKPEGVPRIDCVSKNEDI
 PNVAVYPHNGMIDLKYFPYGGKLLHVGYLQPLVAVQVSFAPNNTGKEVTVECKIDGSANLKSQDD
 RDKFLGRVMFKITARA

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

56.43

Preparation Method

[in vitro wheat germ expression system](#)

Purification

Glutathione Sepharose 4 Fast Flow

Quality Control Testing

12.5% SDS-PAGE Stained with Coomassie Blue.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

Storage Instruction

Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Note

Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — ATP1B3

Entrez GeneID [483](#)

GeneBank Accession# [BC011835](#)

Protein Accession# [AAH11835](#)

Gene Name ATP1B3

Gene Alias ATPB-3, CD298, FLJ29027

Gene Description ATPase, Na⁺/K⁺ transporting, beta 3 polypeptide

Omim ID [601867](#)

Gene Ontology [Hyperlink](#)

Gene Summary

The protein encoded by this gene belongs to the family of Na⁺/K⁺ and H⁺/K⁺ ATPases beta chain proteins, 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 beta subunit regulates, through assembly of alpha/beta heterodimers, the number of sodium pumps transported to the plasma membrane. The glycoprotein subunit of Na⁺/K⁺ -ATPase is encoded by multiple genes. This gene encodes a beta 3 subunit. This gene encodes a beta 3 subunit. A pseudogene exists for this gene, and it is located on chromosome 2. [provided by RefSeq]

Other Designations

Na⁺/K⁺ -ATPase beta 3 subunit|Na, K-ATPase beta-3 polypeptide|sodium/potassium-dependent ATPase beta-3 subunit|sodium/potassium-transporting ATPase beta-3 chain

Pathway

- [Cardiac muscle contraction](#)