

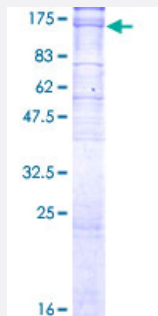
Full-Length

ATP1A3 (Human) Recombinant Protein (P01)

Catalog # H00000478-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human ATP1A3 full-length ORF (NP_689509.1, 1 a.a. - 1013 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MGDKKDDKDSPKKNKGKERRDLDDLKKEVAMTEHKMSVEEVCRKYNTDCVQGLTHSKAQEILA
RDGPNALTPTTPEWVKFCRQLFGGFSILLWIGAILCFLAYGIQAGTEDDPSGDNLYLGM LAAVVI
ITGCFSYQEAKSSKIMESFKNMVPQQALVIREGEKMQVNAEEVVVDLVEIKGGDRVPADLRIIS
AHGCKVDNSSLTGESEPQTRSPDCTHDNPLETRNITFFSTNCVEGTARGVVVATGDRTVMGRIAT
LASGLEVGKTPAIEIEHFIQLITGVAVFLGVSFILSLILGYTWLEAVIFLIGIVANVPEGLLATVTVCLT
LTAKRMARKNCLVKNLEAVETLGSTSTICSDKTGTLTQNRMTVAHMMWFDNQIHEADTTEDQSGTS
FDKSSHTWVALSHIAGLCNRAVFKGGQDNIPVLKRDVAGDASESALLKCIELSSGSKLMRERNK
KVAEIPFNSTNKYQLSIHETEDPNDNRYLLVMKGAPERILDRCSTILLQGKEQPLDEEMKEAFQNAV
LELGGLGERVLGFCHYYLPEEQFPKGFAFDCDDVNFTTDNLCFVGLMSMIDPPRAAVPDAVGKC
RSAGIKVIMVTGDHPITAKAIAKGVGIISEGNETVEDIAARLNIPVSQVNPRDAKACVIHGTDLKDFTS
EQIDEILQNHEIMFARTSPQQKLIVEGCQRQGANAVTGDGVNDSPALKKADIGVAMGIAGSDVSK
QAADMILLDDNFASVTGVEEGRLIFDNLKKSIAYTLSNIPEITPFLFIMANIPLPLGTTILCIDLGTD
MPAISLAYEAAESDIMKRQPRNPRTDKLVNERLISMAYGQIGMIQALGGFFSYFVILAENGFLPGNLV
GIRLNWDDRTVNDLEDSYGQQWTEYQRKVVEFTCHTAFFVSIVVQWADLIICKTRRNSVFQQGM
KNKILIFGLFEETALAAFLSYCPGMDVALRMYPLKPSWWFCAFPYSFLIFVYDEIRKLILRRNPGGW
VEKETYY

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

138.1

Interspecies Antigen Sequence	Rat (99)
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 — ATP1A3

Entrez GeneID	478
GeneBank Accession#	NM_152296.3
Protein Accession#	NP_689509.1
Gene Name	ATP1A3
Gene Alias	DYT12, MGC13276, RDP
Gene Description	ATPase, Na ⁺ /K ⁺ transporting, alpha 3 polypeptide
Omim ID	128235 182350
Gene Ontology	Hyperlink

Gene Summary

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 3 subunit. [provided by RefSeq]

Other Designations

Na⁺/K⁺ -ATPase alpha 3 subunit|Na⁺/K⁺ ATPase 3|sodium pump 3|sodium-potassium-ATPase, alpha 3 polypeptide|sodium/potassium-transporting ATPase alpha-3 chain

Pathway

- [Cardiac muscle contraction](#)

Disease

- [Bipolar Disorder](#)
- [Genetic Predisposition to Disease](#)