

Recombinant Human ATP1A3 protein, GST-tagged

Cat. No. ATP1A3-963H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human ATP1A3 full-length ORF (NP_689509.1, 1 a.a. - 1013 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	Wheat Germ
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 3 subunit. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jan 2012]
Molecular Mass	138.1 kDa
AA Sequence	MGDKKDDKDSPKKNKGKERRDLDDLKKEVAMTEHKMSVEEVCRKYNTDCVQGLT HSKAQEILARDGPNALTTPPTTPEWVKFCRQLFGGFSILLWIGAILCFLAYGIQAGTE DDPSGDNLYLGIVLAAVVIITGCFSYYQEAKSSKIMESFKNMVPQQALVIREGEKMQV

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NAEVVVVDLVEIKGGDRVPADLRIISAHGCKVDNSSLTGESEPQTRSPDCTHDNPL
 ETRNITFFSTNCVEGTARGVVVATGDRTVMGRIATLASGLEVGKTPIAIEIEHFIQLITG
 VAVFLGVSSFFILSLILGYTWLEAVIFLIGIIVANVPEGLLATVTVCLTLTAKRMARKNCLV
 KNLEAVETLGSTSTICSDKTGTLTQNRMTVAHMMWFDNQIHEADTTEDQSGTSFDKS
 SHTWVALSHIAGLCNRAVFKGGQDNIPVLKRDVAGDASESALLKCIELSSGSVKLMR
 ERNKKVAEIPFNSTNKYQLSIHETEDPNDNRYLLVMKGAPERILDRCSTILLQGKEQP
 LDEEMKEAFQNAVLELGGGLGERVLGFCHYYLP EEQFPKGFAFDCDDVNFTTDNLCF
 VGLMSMIDPPRAAVPDAVGKCRSAGIKVIMVTGDHPITAKAIAKGVGIIEGNETVEDI
 AARLNIPVSQVNPRDAKACVIHGTDLKDFTSEQIDEILQNHTEIVFARTSPQQKLIIVEG
 CQRQGAIVAVTGDGVNDSPALKKADIGVAMGIAGSDVSKQAADMILLDDNFASIVTG
 VEEGRILFDNLKKSIAAYTLTSNIPEITPFLLFIMANIPLPLGTITILCIDLGDMVPAISLAY
 EAAESDIMKRQPRNPRTDKLVNERLISMAYGQIGMIQALGGFFSYFVILAENGFLPGN
 LVGIRLNWDDRTVNDLEDSYGQWQTYEQRKVVEFTCHTAFFVSIVVVQWADLIICKT
 RRNSVFQQGMKNKILIFGLFEETALAAFLSYCPGMDVALRMYPLKPSWWFCAFPYS
 FLIFVYDEIRKLILRRNPGGWVEKETYY

Applications

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

Notes

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

Storage

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

Storage Buffer

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

GENE INFORMATION
Gene Name

ATP1A3 ATPase, Na⁺/K⁺ transporting, alpha 3 polypeptide [Homo sapiens]

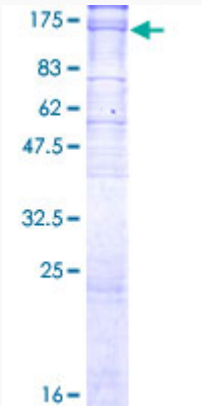
Official Symbol

ATP1A3

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Synonyms	ATP1A3; ATPase, Na ⁺ /K ⁺ transporting, alpha 3 polypeptide; dystonia 12 , DYT12; sodium/potassium-transporting ATPase subunit alpha-3; Na ⁺ /K ⁺ ATPase 3; sodium pump subunit alpha-3; Na(+)/K(+) ATPase alpha-3 subunit; Na(+)/K(+) ATPase alpha(III) subunit; sodium-potassium-ATPase, alpha 3 polypeptide; sodium/potassium-transporting ATPase alpha-3 chain; RDP; DYT12; MGC13276;
Gene ID	478
mRNA Refseq	NM_001256213
Protein Refseq	NP_001243142
MIM	182350
UniProt ID	P13637
 12.5% SDS-PAGE Stained with Coomassie Blue.	