Recombinant Full Length Human ATP1A3 Protein, GST-tagged

Cat. No. ATP1A3-1088HF **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	In Vitro Cell Free System
ProteinLength	1013 amino acids
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	MGDKKDDKDS PKKNKGKERR DLDDLKKEVA MTEHKMSVEE VCRKYNTDCV QGLTHSKAQE ILARDGPNAL TPPPTTPEWV KFCRQLFGGF SILLWIGAIL

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	CFLAYGIQAG TEDDPSGDNL YLGIVLAAVV IITGCFSYYQ EAKSSKIMES FKNMVPQQAL VIREGEKMQV NAEEVVVGDL VEIKGGDRVP ADLRIISAHG CKVDNSSLTG ESEPQTRSPD CTHDNPLETR NITFFSTNCV EGTARGVVVA TGDRTVMGRI ATLASGLEVG KTPIAIEIEH FIQLITGVAV FLGVSFFILS LILGYTWLEA VIFLIGIIVA NVPEGLLATV TVCLTLTAKR MARKNCLVKN LEAVETLGST STICSDKTGT LTQNRMTVAH MWFDNQIHEA DTTEDQSGTS FDKSSHTWVA LSHIAGLCNR AVFKGGQDNI PVLKRDVAGD ASESALLKCI ELSSGSVKLM RERNKKVAEI PFNSTNKYQL SIHETEDPND NRYLLVMKGA PERILDRCST ILLQGKEQPL DEEMKEAFQN AYLELGGLGE RVLGFCHYYL PEEQFPKGFA FDCDDVNFTT DNLCFVGLMS MIDPPRAAVP DAVGKCRSAG IKVIMVTGDH PITAKAIAKG VGIISEGNET VEDIAARLNI PVSQVNPRDA KACVIHGTDL KDFTSEQIDE ILQNHTEIVF ARTSPQQKLI IVEGCQRQGA IVAVTGDGVN DSPALKKADI GVAMGIAGSD VSKQAADMIL LDDNFASIVT GVEEGRLIFD NLKKSIAYTL TSNIPEITPF LLFIMANIPL PLGTITILCI DLGTDMVPAI SLAYEAAESD IMKRQPRNPR TDKLVNERLI SMAYGQIGMI QALGGFFSYF VILAENGFLP GNLVGIRLNW DDRTVNDLED SYGQQWTYEQ RKVVEFTCHT AFFVSIVVVQ WADLIICKTR RNSVFQQGMK NKILIFGLFE ETALAAFLSY CPGMDVALRM YPLKPSWWFC AFPYSFLIFV YDEIRKLILR RNPGGWVEKE TYY
Applications	Enzyme-linked Immunoabsorbent Assay; Western Blot (Recombinant protein); Antibody Production; Protein Array
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]

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Official Symbol	ATP1A3
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

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