

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 TEDDPSPGDNL YLGIVLAAVV IITGCFSYYQ EAKSSKIMES
 FKNMVPQQAL VIREGEKMQV NAEVVVGDL VEIKGGDRVP ADLRIISAHG
 CKVDNSSLTG ESEPQTRSPD CTHDNPLETR NITFFSTNCV EGTARGVVVA
 TGDRTVMGRI ATLASGLEVG KPIAIEIEH FIQLITGVAV FLGVSFFILS
 LILGYTWLEA VIFLIGIIVA NVPEGLLATV TVCLTLTAKR MARKNCLVKN
 LEAVETLGST STICSDKTGT LTQNRMTVAH MWFDNQIHEA DTTEDQSGTS
 FDKSSHTWVA LSHIAGLCNR AVFKGGQDNI PVLKRDVAGD ASESALLKCI
 ELSSGSVKLM RERNKKVAEI PFNSTNKYQL SIHETEDPND NRYLLVMKGA
 PERILDRCT ILLQGKEQPL DEEMKEAFQN AYLELGGLGE RVLGFCHYYL
 PEEQFPKGFA FDCDDVNFTT DNLCFVGLMS MIDPPRAAVP DAVGKCRSAG
 IKVIMVTGDH PITAKAIAKG VGIISEGNET VEDIAARLNI PVSQVNPRDA
 KACVIHGTDL KDFTSEQIDE ILQNHTEIVF ARTSPQQKLI IVEGCQRQGA
 IVAVTGDGVN DSPALKKADI GVAMGIAGSD VSKQAADMIL LDDNFASIVT
 GVEEGRILFD NLKKSIAAYTL TSNIEITPF LLFIMANIPL PLGTITILCI DLGTDMPVPAI
 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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