

Recombinant Full Length Human ATP1A1 Protein, C-Flag-tagged

Cat. No. ATP1A1-379HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human ATP1A1 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
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 1 subunit. Multiple transcript variants encoding different isoforms have been found for this gene.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	112.7 kDa
AA Sequence	MGKGVGRDKYEPAAVSEQGDKKGKKGKKDRDMDLKKKEVSMDDHKLSLDELHRK YGTDLRGLTSARAAE ILARDGPNALTPPPTPEWIKFCRQLFGGFSMLLWIGAILCF

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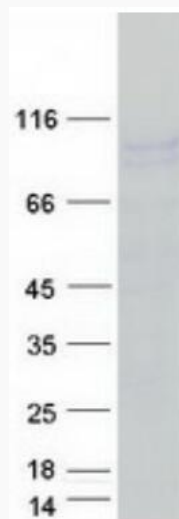
 45-1 Ramsey Road, Shirley, NY 11967, USA

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 AAIEHFHIIITGVAVFLGVSVFFILSLILEYTWLEAVIFLIGIIVANVPEGLLATVTVCLTLTA
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 NQSGVSFDKTSATWLA LSRIAGLCNRAVFQANQENLPILKRAVAGDASESALLKCIE
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 SEGNETVEDIAARLNIPVSQVNPRDAKACVVHGSCLKDMTSEQLDDILKYHTEIVFAR
 TSPQQKLI IVEGCQRQGAIVAVTGDGVNDSPALKKADIGVAMGIAGSDVSKQAADMI
 LLDDNFASIVTGVEEGRIFD NLKKSIAYTLTSNIPETPFLIFIIANIPLPLGTVTILCIDLG
 TDMVPAISLAYEQAESDIMKRQPRNPK TDKLVNERLISMAYGQIGMIQALGGFFTYF
 VILAENGFLPIHLLGLRVDWDDRWDVDSYGGQWYEQ RKIVEFTCHTAFFVSIV
 VVQWADLVICKTRRNSVFQQGMKNKILIFGLFEETALAAFLSYCPGMGVALRM
 YPLKPTWWFCAFPYSLIFVYDEVKLIIRRRPGGWVEKETYYTRTRPLEQKLISEED
 LAANDILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.

Protein Families	Druggable Genome, Transmembrane
Protein Pathways	Cardiac muscle contraction
Full Length	Full L.
GENE INFORMATION	
Gene Name	ATP1A1 ATPase Na ⁺ /K ⁺ transporting subunit alpha 1 [Homo sapiens (human)]
Official Symbol	ATP1A1
Synonyms	CMT2DD; HOMGSMR2
Gene ID	476
mRNA Refseq	NM_000701.8
Protein Refseq	NP_000692.2
MIM	182310
UniProt ID	P05023

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Coomassie blue staining of purified ATP1A1 protein.

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