

Recombinant Full Length Human ATP2A1 Protein, C-Flag-tagged

Cat. No. ATP2A1-1520HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human ATP2A1 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	This gene encodes one of the SERCA Ca(2+)-ATPases, which are intracellular pumps located in the sarcoplasmic or endoplasmic reticula of muscle cells. This enzyme catalyzes the hydrolysis of ATP coupled with the translocation of calcium from the cytosol to the sarcoplasmic reticulum lumen, and is involved in muscular excitation and contraction. Mutations in this gene cause some autosomal recessive forms of Brody disease, characterized by increasing impairment of muscular relaxation during exercise. Alternative splicing results in three transcript variants encoding different isoforms.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	110.1 kDa
AA Sequence	MEAAHAKTTEECLAYFGVSETTGLTPDQVKRNLEKYGLNELPAEEGKTLWELVIEQF EDLLVRILLAAAC ISFVLAWFEEGEETITAFVEPFVILLILIANAIVGVWQERNAENAIEA LKEYEPEMGKVYRADRKSVQRI KARDIVPGDIVEVAVGDKVPADIRILAIKSTTLRVD QSILTGESVSVIKHTEPVPDPRAVNQDKKNMLFS GTNIAAGKALGIVATTGVGTEIGK

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IRDQMAATEQDKTPLQQKLDEFGEQLSKVISLICVAVWLINIGHFN DPVHGGSWFRG
 AIYYFKIAVALAVAAIPEGLPAVITTCLALGTRRMAKKNAIVRSLPSVETLGCTSVICS D
 KTGTLTNNQMSVCKMFIIDKVDGDICLLNEFSITGSTYAPEGEVLKNDKPVRPGQYD
 GLVELATICALC NDSSLDFNEAKGVYEKVGGEATETALTTLVEKMNVFNTDVRSLSKV
 ERANACNSVIRQLMKKEFTLEFSRD RKSMSVYCSPAESSRAAVGNKMFVKGAPGEG
 VIDRCNYVRVGTTTRVPLTGPVKEKIMAVIKEWGTGRDRTLRLALATRDTPPKREEM
 VLDDSAARFLEYETDLTFVGVVGMLDPPRKEVTGSIQLCRDAGIRVIMITGDNKG TAIA
 ICRRIGIFGENEEVADRAYTGREFDDLPLAEQREACRRACCFARVEPSHKSKIVEYL
 QSYDEITAM TGDGVNDAPALKKAEIGIAMGSGTAVAKTASEMVLADDNFSTIVAAVE
 EGRAIYNNMKQFIRYLISSNVG EVVCIFLTAALGLPEALIPVQLLWVNLVTDGLPATAL
 GFNPPDLDIMDRPPRSPKEPLISGWLFFRYMAI GGYVGAATVGAAAWFLYAEDG
 PHVNYSQLTHFMQCTEDNTHFEGIDCEVFEAPEPMTMALSVLVTIEMC NALNSLSE
 NQSLLRMPWPVNIWLLGSICLSMSLHFLILYVDPLPMIFKLRLALDLTQWLMVLKISLPV
 IGL
 DEILKFVARNYLEDPEDERRKTRTRPLEQKLISEEDLAANDILDYKDDDDKV

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	Alzheimer's disease, Calcium signaling pathway
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Full Length	Full L.
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GENE INFORMATION

Gene Name	ATP2A1 ATPase sarcoplasmic/endoplasmic reticulum Ca ²⁺ transporting 1 [Homo sapiens (human)]
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Official Symbol	ATP2A1
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Synonyms	ATP2A; SERCA1
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Gene ID	487
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mRNA Refseq	NM_173201.5
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Protein Refseq	NP_775293.1
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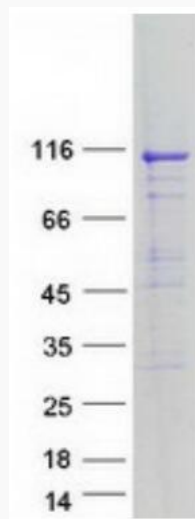
MIM	108730
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UniProt ID	O14983
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Coomassie blue staining of purified ATP2A1 protein.

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