

Recombinant Full Length Human ATP2A3 Protein, C-Flag-tagged

Cat. No. ATP2A3-1885HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human ATP2A3 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 calcium sequestration associated with muscular excitation and contraction. Alternative splicing results in multiple transcript variants encoding different isoforms.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	114.8 kDa
AA Sequence	MEAAHLLPAADVLRHFSVTAEGGLSPAQVTGARERYGPNELPSEEGKSLWELVLEQ FEDLLVRILLAL VSFVLAWFEEGEETTTAFVEPLVIMLILVANAIVGVWQERNAESA IEALKEYEPEMGKVIRSDRKGVQRI RARDIVPGDIVEVAVGDKVPADLRRLIEIKSTTLR VDQSILTGESVSVTKHTEAIPDPRAVNQDKKNMLFS GTNITSGKAVGVAVATGLHTE LGKIRSQMAAVEPERTPLQRKLDEFGRQLSHAISVICVAVVWINIGHFA DPAHGGSW LRGAVYYFKIAVALAVAAIPEGLPAVITTCALGTRRMARKNAIVRSLPSVETLGCTSVI

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CS DKTGTLTTNQMSVCRMVVAEADAGSCLLHEFTISGTTYTPEGEVRQGDQPVR
CGQFDGLVELATICALC NDSALDYNEAKGVYEKVGGEATETALTCLVEKMNVFDTDL
QALSRVERAGACNTVIKQLMRKEFTLEFSRD RKSMSVYCTPTRPHPTGQGSKMFV
KGAPESVIERCSSVRVGSRTAPLTPTSREQILAKIRDWGS GSDTLR CLALATRDAPP
RKEDMELDDCSKFVQYETDLTFVGCVGMLDPPRPEVAACITRCYQAGIRVVMITGD
NKG TAVAICRRLGIFGDTEVDAGKAYTGREFDDLSPQQRQACRTARCFARVEPAH
KSRIVENLQSFNEITAM TGDGVNDAPALKKAEIGIAMSGTAVAKSAAEMVLSDDNF
ASIVAAVEEGRAIYSNMKQFIRYLISSNVG EVVCIFLTAILGLPEALIPVQLLWVNLVTD
GLPATALGFNPPDLIMEKLPRSPREALISGWLFFRYLAI GVVVGLATVAAATWWFV
YDAEGPHINFYQLRNFLKCSNPLFAGIDCEVFESRFPTTMALSVLVTIEMC NALN
SVSENQSLLRMPWPWNPWLLVAVAMSMALHFLILLVPPLPLIFQVTPLSGRQWVVVL
QISLPVILL DEALKYLSRNMHACLYPGLLRVTSQAWSRQPLTTSWTPDHTGLASLG
QGHSIVSLSELLREGGSREEMS QK TRTRPLEQKLISEEDLAANDILDYKDDDDKV

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

Full Length
Full L.

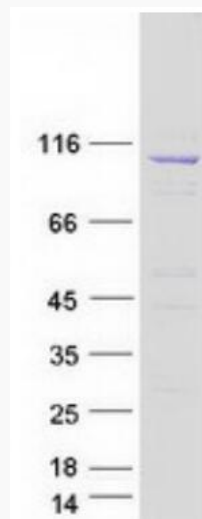
GENE INFORMATION

Gene Name	ATP2A3 ATPase sarcoplasmic/endoplasmic reticulum Ca ²⁺ transporting 3 [Homo sapiens (human)]
Official Symbol	ATP2A3
Synonyms	SERCA3
Gene ID	489
mRNA Refseq	NM_174953.3
Protein Refseq	NP_777613.1
MIM	601929
UniProt ID	Q93084

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Coomassie blue staining of purified ATP2A3 protein.

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