

Recombinant Human ATP2A3 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. ATP2A3-2783H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	ATP2A3 MS Standard C13 and N15-labeled recombinant protein (NP_777613) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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.
Molecular Mass	114.8 kDa
AA Sequence	MEAAHLLPAADVLRHFSVTAEGGLSPAQVTGARERYGPNELPSEEGKSLWELVLEQ FEDLLVRILLLAALVSFVLAWFEEGEETTTAFVEPLVIMLILVANAIVGVWQERNAESAI EALKEYEPEMGKVIRSDRKGVQIRARDIVPGDIVEVAVGDKVPADLRLEIKSTTLRV DQSILTGESVSVTKHTEAIPDPRAVNQDKKNMLFSGTNITSGKAVGVAVATGLHTEL GKIRSQMAAVEPERTPLQRKLDEFGRQLSHAISVICVAVVWINIGHFADPAHGGSWL RGAVYYFKIAVALAVAAIPEGLPAVITTCALGTRRMARKNAIVRSLPSVETLGCTSVI CSDKTGTLTTNQMSVCRMVVAEADAGSCLLHEFTISGTTYTPEGEVRQGDQPVRC

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GQFDGLVELATICALCNDSEALDYNEAKGVYEKVGGEATETALTCLVEKMNVFDTDLQA
 LSRVERAGACNTVIKQLMRKEFTLEFSRDRKSMSVYCTPTRPHPTGQGSKMFMVKGGA
 PESVIERCSSLVRVGSRTAPLTPTSREQILAKIRDWGSSTLRCLALATRDAPPRKE
 DMELDDCSKFVQYETDLTFVGCVMGLDPPRPEVAACITRCYQAGIRVVMITGDNKG
 TAVAICRRLGIFGDTEDVAGKAYTGREFDDLSPEQQRQACRTARCFARVEPAHKSRI
 VENLQSFNEITAMTGDGVNDAPALKKAEIGIAMGSGTAVAKSAAEMVLSDDNFASIV
 AAVEEGRAIYSNMKQFIRYLISSNVGEVVCIFLTAILGLPEALIPVQLLWVNLVTDGLPA
 TALGFNPPDLIMEKLPRSPREALISGWLFFRYLAIGVYVGLATVAAATWWFVYDAE
 GPHINFYQLRNFLKCEDNPLFAGIDCEVFESRFPTTMALSVLVTIEMCNALNSVSEN
 QSLLRMPPWMNPWLLVAVAMSMALHFLILLVPPLPLIFQVTPLSGRQWVVVLQISLP
 VILLDEALKYLSRNHMHACLYPGLLRTVSQAWSRQPLTTSWTPDHTGLASLGQGHSI
 VLSSELLREGGSREEMSQKTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name ATP2A3 ATPase sarcoplasmic/endoplasmic reticulum Ca²⁺ transporting 3 [Homo sapiens (human)]

Official Symbol ATP2A3

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Synonyms	ATP2A3; ATPase, Ca ⁺⁺ transporting, ubiquitous; sarcoplasmic/endoplasmic reticulum calcium ATPase 3; SERCA3; calcium pump 3; SR Ca(2+)-ATPase 3; adenosine triphosphatase, calcium; calcium-translocating P-type ATPase; ATPase, Ca(2+)-transporting, ubiquitous; sarco/endoplasmic reticulum Ca ²⁺ -ATPase;
Gene ID	489
mRNA Refseq	NM_174953
Protein Refseq	NP_777613
MIM	601929
UniProt ID	Q93084
SDS-PAGE	