

Recombinant Human ATP2A3, GST-tagged

Cat. No. ATP2A3-10011H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human ATP2A3 protein, fused to GST-tag, was expressed in E.coli and purified by GSH-sepharose.
Species	Human
Source	E.coli
ProteinLength	322-770a.a.
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.
Storage	The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.
Storage Buffer	1M PBS (58mM Na ₂ HPO ₄ , 17mM NaH ₂ PO ₄ , 68mM NaCl, pH8.) added with 100mM GSH and 1% Triton X-100, 15% glycerol.

GENE INFORMATION

Gene Name	ATP2A3 ATPase, Ca++ transporting, ubiquitous [Homo sapiens]
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Official Symbol	ATP2A3
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_005173
Protein Refseq	NP_005164
MIM	601929
UniProt ID	Q93084
Chromosome Location	17p13.3
Pathway	Alzheimers disease, organism-specific biosystem; Alzheimers disease, conserved biosystem; Calcium Regulation in the Cardiac Cell, organism-specific biosystem; Calcium signaling pathway, organism-specific biosystem; Calcium signaling pathway, conserved biosystem; Hemostasis, organism-specific biosystem; Ion channel transport, organism-specific biosystem;
Function	ATP binding; calcium-transporting ATPase activity; hydrolase activity; hydrolase activity, acting on acid anhydrides, catalyzing transmembrane movement of substances; metal ion binding; nucleotide binding;