

Recombinant Human ATP2A3

Cat. No. ATP2A3-31352TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment of Human SERCA3 ATPase with N terminal proprietary tag. Predicted MW 38.83 kDa.
Species	Human
Source	Wheat Germ
ProteinLength	120 amino acids
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 Weight	38.830kDa inclusive of tags
Tissue specificity	Found in most tissues. Most abundant in thymus, trachea, salivary gland, spleen, bone marrow, lymph node, peripheral leukocytes, pancreas and colon. Also detected in fetal tissues.
Form	Liquid
Purity	Proprietary Purification

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Storage buffer	pH: 8.00Constituents:0.3% Glutathione, 0.79% Tris HCl
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	TRPHPTGQGSKMFVKGAPESVIERCSSVRVGSRTAPLTPT SREQILAKIRDWGSGS DTLRCLALATRDAPPRKEDMELDD CSKFVQYETDLTFVGCVGMLDPPRPEVAACIT RCYQAGIR
Sequence Similarities	Belongs to the cation transport ATPase (P-type) (TC 3.A.3) family. Type IIA subfamily.
GENE INFORMATION	
Gene Name	ATP2A3 ATPase, Ca++ transporting, ubiquitous [Homo sapiens]
Official Symbol	ATP2A3
Synonyms	ATP2A3; ATPase, Ca++ transporting, ubiquitous; sarcoplasmic/endoplasmic reticulum calcium ATPase 3; SERCA3;
Gene ID	489
mRNA Refseq	NM_005173
Protein Refseq	NP_005164
MIM	601929
Uniprot ID	Q93084

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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;
Function	ATP binding; calcium-transporting ATPase activity; hydrolase activity; hydrolase activity, acting on acid anhydrides, catalyzing transmembrane movement of substances; metal ion binding;

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