Recombinant Human ATP2A1 Protein, MYC/DDK-tagged

Cat. No. ATP2A1-2944H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human ATP2A1 protein, fused to MYC/DDK-tagged at C-terminus, was expressed in HEK293.
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 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
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration	>50 ug/mL as determined by microplate BCA method

GENE INFORMATION

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Gene Name	ATP2A1 ATPase, Ca++ transporting, cardiac muscle, fast twitch 1 [Homo sapiens]
Official Symbol	ATP2A1
Synonyms	ATP2A; SERCA1
Gene ID	487
mRNA Refseq	NM_004320
Protein Refseq	NP_004311
MIM	108730
UniProt ID	O14983

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