

Recombinant Homo sapiens Cardiac phospholamban

Catalog No: #AP72726



Package Size: #AP72726-1 20ug #AP72726-2 100ug #AP72726-3 1mg

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Description

Product Name	Recombinant Homo sapiens Cardiac phospholamban
Brief Description	Recombinant Protein
Host Species	Yeast
Purification	Greater than 90% as determined by SDS-PAGE.
Immunogen Description	Expression Region:1-52aaSequence Info:Full Length
Accession No.	P26678
Uniprot	P26678
GeneID	5350;
Calculated MW	33.1 kDa
Tag Info	N-terminal GST-tagged
Target Sequence	MEKVQYLTRSAIRRASTIEMPQQARQKLQNLFINFCLILICLLLCIIVMLL
Formulation	Tris-based buffer50% glycerol
Storage	<p>The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.</p> <p>Generally, the shelf life of liquid form is 6 months at -20°C,-80°C. The shelf life of lyophilized form is 12 months at -20°C,-80°C.Notes:Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.</p>

Background

Reversibly inhibits the activity of ATP2A2 in cardiac sarcoplasmic reticulum by decreasing the apparent affinity of the ATPase for Ca²⁺. Modulates the contractility of the heart muscle in response to physiological stimuli via its effects on ATP2A2. Modulates calcium re-uptake during muscle relaxation and plays an important role in calcium homeostasis in the heart muscle. The degree of ATP2A2 inhibition depends on the oligomeric state of PLN. ATP2A2 inhibition is alleviated by PLN phosphorylation

References

"Myotonic dystrophy protein kinase phosphorylates phospholamban and regulates calcium uptake in cardiomyocyte sarcoplasmic reticulum."
 Kaliman P., Catalucci D., Lam J.T., Kondo R., Gutierrez J.C., Reddy S., Palacin M., Zorzano A., Chien K.R., Ruiz-Lozano P.J. Biol. Chem. 280:8016-8021(2005) Research Topic:Cardiovascular

Note: This product is for in vitro research use only