

Recombinant Human Sarcoplasmic, endoplasmic reticulum calcium ATPase 2(ATP2A2), partial

Catalog No: #AP70063

Package Size: #AP70063-1 20ug #AP70063-2 100ug #AP70063-3 1mg

Description

Product Name	Recombinant Human Sarcoplasmic, endoplasmic reticulum calcium ATPase 2(ATP2A2), partial
Host Species	E.coli
Purification	Greater than 90% as determined by SDS-PAGE.
Immunogen Description	Expression Region:314-756aaSequence Info:Cytoplasmic Domain
Other Names	Calcium pump 2;Calcium-transporting ATPase sarcoplasmic reticulum type, slow twitch skeletal muscle isoform;Endoplasmic reticulum class 1,2 Ca(2+) ATPase
Accession No.	P16615
Calculated MW	52.3 kDa
Tag Info	N-terminal 6xHis-tagged
Target Sequence	VITTCLALGTRMAKKNAIVRSLPSVETLGCTSVICSDKTGTLTTNQMSVCRMFIILDRVEGDTCSLNEFTITGST YAPIGEVHKDDKPVNCHQYDGLVELATICALCNDSDLDYNEAKGVYKVGGEATETALTCLVEKMNVDTELKG LSKIERANACNSVIKQLMKKEFTLEFSRDRKSMSVYCTPNKPSRTSMKMFVKGAPEGVIDRCTHIRVGSTKV PMTSGVKQKIMSVIREWGSGSDTLRCLALATHDNPLRREEMHLEDSEANFIKYETNLTFVGCVGMLDPPRIEVA SSVKLCRQAGIRVIMITGDNKGTAVAICRRIGIFGQDEDVTSKFTGREFDELNPSAQRDAACLNARCFARVEPS HKSIVFLQSFDEITAMTGDGVNDAPALKKAEIGIAMSGTAVAKTASEMVLADDNFSTIVA AVEEGRAIYNN M
Formulation	Tris-based buffer50% glycerol
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. 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.

Background

This magnesium-dependent enzyme catalyzes the hydrolysis of ATP coupled with the translocation of calcium from the cytosol to the sarcoplasmic reticulum lumen. Isoform 2 is involved in the regulation of the contraction, relaxation cycle.

References

An enzyme assisted RP-RPLC approach for in-depth analysis of human liver phosphoproteome. Bian Y., Song C., Cheng K., Dong M., Wang F., Huang J., Sun D., Wang L., Ye M., Zou H.J. Proteomics 96:253-262(2014)Research Topic:Cardiovascular

Note: This product is for in vitro research use only and is not intended for use in humans or animals.