



# Recombinant Human ATP2A2 Protein Product Manual

## 1. Product Basic Information

**Product No.:** REP06205

**Protein Name:** Calcium Pump Sr Ca(2+)-Atpase Cardiac Ca2+ Atpase (ATP2A2)

**Aliases:** DD; DAR; ATP2B; SERCA2; RHABDO2; calcium pump SR Ca(2+)-ATPase cardiac Ca2+ ATPase; endoplasmic reticulum class 1/2 Ca(2+) ATPase

**UniProt ID:** P16615

**UniProt Link:** <https://www.uniprot.org/uniprotkb/P16615/entry>

**Species Source:** Homo sapiens (Human)

**Expression System:** E.coli

**Protein Length:** Partial (314-756aa)

**Molecular Weight:** 52.3kDa

**Protein Tag:** N-terminal 6xHis-tagged

## 2. Amino Acid Sequence (314-756aa)

VITTCALGTRRMAKKNAIVRSLPSVETLGCTSVICSDDKTGTLTTNQMSVCRMFILDR  
VEGDTCSLNEFTITGSTYAPIGEVHKDDKPVNCHQYDGLVELATICALCNDSDALDYN  
EAKGVYEKVGGEATETALTCLVEKMNVFDTLTKGLSKIERANACNSVIKQLMKKEFTL  
EFSRDRKSMSVYCTPNKPSRTSMKMFVKGAPEGVIDRCTHIRVGSTKVPMTSGV  
KQKIMSVIREWGSGSDTLRCLALATHDNPLRREEMHLED SANFIKYETNLTFVGCV  
GMLDPPRIEVASSVKLCRQAGIRVIMITGDNKGTAVAICRRIGIFGQDEDVTSKFTG  
REFDELNPSAQRDACLNARCFARVEPSHKSKIVEFLQSFDEITAMTGDGVNDAPAL  
KKAEIGIAMGSGTAVAKTASEMVLADDNFSTIVA AVEEGRAIYNNM

## 3. Storage Buffer

**Liquid Delivery Form:** Tris/PBS-based buffer with 5%-50% glycerol. Custom glycerol content is available upon customer request (please specify requirements when placing orders).

**Lyophilized Powder Delivery Form:** Pre-lyophilization buffer is Tris/PBS-based buffer containing 6% Trehalose.

## **4. Storage Conditions**

Upon receipt, store the product at -20°C or -80°C. It is recommended to aliquot the protein for multiple uses to avoid repeated freeze-thaw cycles, which may cause protein denaturation and activity loss.

## **5. Product Description**

This product is a recombinant Human ATP2A2 partial protein (314-756aa) expressed in E.coli. The protein is with 6xHis tag at the N-terminus, which facilitates protein purification, detection and identification. ATP2A2, also known as DD or DAR or ATP2B, is suitable for related in vitro functional assays, protein interaction studies, antibody preparation and other biomedical research applications.

## **6. Notes**

- Repeated freezing and thawing of the product is strictly prohibited to ensure protein stability and biological activity.
- For special buffer component requirements, please submit a note when purchasing.
- This product is only for scientific research use, not for clinical diagnosis, treatment or commercial production purposes.