

Datasheet for ABIN7564706

ATP2A1/SERCA1 Protein (AA 1-994) (His tag)[Go to Product page](#)

Overview

Quantity:	1 mg
Target:	ATP2A1/SERCA1 (ATP2A1)
Protein Characteristics:	AA 1-994
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ATP2A1/SERCA1 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant Atp2a1 Protein expressed in mammalian cells.
Sequence:	MEAAHSKSTE ECLSYFGVSE TTGLTPDQVK RHLEKYGPNE LPAEEGKSLW ELVVEQFEDL LVRILLLAAC ISFVLAWFEE GEETVTAFVE PFVILLILIA NAIVGVWQER NAENAIEALK EYEPENMGVY RADRKSQRI KARDIVPGDI VEVAVGDKVP ADIRILSIKS TTLRVDQSIL TGESVSVIKH TDPVPDPRAV NQDKKNMLFS GTNIAAGKAV GIVATTGVST EIGKIRDQMA ATEQDKTPLQ QKLDEFGEQL SKVISLICVA VWLINIGHFN DPVHGGSWFR GAIYYFKIAV ALAVAAIPEG LPAVITTCCLA LGTRRMAKKN AIVRSLPSVE TLGCTSVICS DKTGTLTTNQ MSVCKMFIID KVDGDVCSLN EFSITGSTYA PEGEVLKNDK PVRAGQYDGL VELATICALC NDSSLDFNET KGVYEKVGEA TETALTTLVE KMNVFNTEVR SLSKVERANA CNSVIRQLMK KEFTLEFSRD RKSMSVYCSP AKSSRAAVGN KMFVKGAPPEG VIDRCNYVRV GTRVPLTGP VKEKIMSVIK EWGTGRDRTL CLALATRDTP PKREEMVLDD SAKFMEYEMD LTFVGVVGM DPPRKEVTGS IQLCRDAGIR VIMITGDNKG TAIAICRRIG IFSENEVTD RAYTGREFDD LPLAEQREAC RRACCFARVE PSHKSKIVEY LQSYDEITAM TGDGVNDAPA LKKAIEGIAM

Product Details

GSGTAVAKTA SEMVLADDNF STIVAAVEEG RAIYNNMKQF IRYLISSNVG EVVCIFLTAA
LGLPEALIPV QLLWVNLVTD GLPATALGFN PPDLDIMDRP PRSPKEPLIS GWLFFRYMAI
GGYVGAATVG AAAWWFLYAE DGPHVSYHQL THFMQCTEHN PEFDGLDCEV FEAPEPMTMA
LSVLVTIEMC NALNSLSENQ SLLRMPPWVN IWLLGSICLS MSLHFLILYV DPLPMIFKLR

ALDFTQWLMV LKISLPVIGL DELLKFIARN YLEG **Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.**

Specificity: If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.

Characteristics: Key Benefits:

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

Purity: > 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)

Grade: custom-made

Target Details

Target: ATP2A1/SERCA1 (ATP2A1)

Alternative Name: Atp2a1 ([ATP2A1 Products](#))

Background: Sarcoplasmic/endoplasmic reticulum calcium ATPase 1 (SERCA1) (SR Ca(2+)-ATPase 1) (EC 7.2.2.10) (Calcium pump 1) (Calcium-transporting ATPase sarcoplasmic reticulum type, fast twitch skeletal muscle isoform) (Endoplasmic reticulum class 1/2 Ca(2+) ATPase),FUNCTION:

Target Details

Key regulator of striated muscle performance by acting as the major Ca(2+) ATPase responsible for the reuptake of cytosolic Ca(2+) into the sarcoplasmic reticulum (PubMed:21697544, PubMed:22961106, PubMed:25640239, PubMed:26816378). Catalyzes the hydrolysis of ATP coupled with the translocation of calcium from the cytosol to the sarcoplasmic reticulum lumen. Contributes to calcium sequestration involved in muscular excitation/contraction (PubMed:21697544, PubMed:22961106, PubMed:25640239, PubMed:26816378). {ECO:0000269|PubMed:21697544, ECO:0000269|PubMed:22961106, ECO:0000269|PubMed:25640239, ECO:0000269|PubMed:26816378}.

Molecular Weight: 109.4 kDa

UniProt: [Q8R429](#)

Pathways: [Ribonucleoside Biosynthetic Process](#)

Application Details

Application Notes: We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: The buffer composition is at the discretion of the manufacturer.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months