

Datasheet for ABIN7564945
ATP13A2 Protein (AA 1-1169) (His tag)



[Go to Product page](#)

Overview

Quantity:	1 mg
Target:	ATP13A2
Protein Characteristics:	AA 1-1169
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ATP13A2 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant Atp13a2 Protein expressed in mammalian cells.
Sequence:	MSADSSLLMG STPPSYGTLT TGTSIDPLSS SASSVRLSGY CGSPWRAIGY HAAVWMLAGI PWLLFRWKPL WGVRLRLKPC SLAHAETLVI EIKDKEGSSR QLFTVQVQTE AVVQGSLELP PQAQAEDGRS QAAVGVTPPEG TWQDTSELHR QEEAKQLVRY YVLQGQRYVW METQQAFQCQV SLLDHGRTCD DVHCSSSGLS LQDQATRkti YGPNVISIPV KSYLQLLADE ALNPYYGFQA FSIALWLADH YYWYALCIFL ISAISICLAL YKTRKQSLTL RDMVKLSVRV QVCRPGGEEE WVDSELVPG DCLVLPQEGG VMPCDAALVA GECVNESSL TGESTPVLKT ALPEGPKPYC PETHRRHTLF CGTLILQARA YVGPRVLAV TRTGFCTAKG GLVSSILHPR PISFKFYKHS MKFVAALSVL ALLGTVYSII ILYRNRVPVR EIVIRALDLV TVVPPALPA AMTVCTLYAQ SRLRTQGIFC IHPLRINLGG KLRLVCFDKT GTLTEDGLDV MGVPPLKGQV LLPLVPEPCH LPLGPLLRAL ATCHALSQlh DTPVGDpMDL KMVESTGWVL EEGPAAGSAP GSQVLVVMRP PPGGPRQqEE PPVPVSVLCR FPFSSALQRM DVVVTWPGAT QPEAYVKGSP ELVASLCSPE TVPSDFSQVL QSYTAAGYRV VALAGKPLPI APSLAAAQQL TRDTVERELS LLGLLVMRNL

Product Details

LKPQTAPVIQ TLRKTGIRTV MVTGDNLQTA VTVARACGMV GAQEHLAVIH ATHPEQGQPA
ALEFLPTESS AVMNGAKATG YPTVPEPQSC HLALSGSTFA VLRKHFPKLL PKVLVQATVF
ARMAPEQKTE LVCELQRLQY CVGMCGDGAN DCGALKAADV GISLSQAEAS VVSPFTSSMA
SIECVPTVIR EGRCSLDTSF SVFKYMALYS LTQFISVLIL YTINTNLGDL QFLAIDLVIT
TTVAVLSMRT GPALTLVRAR PPGALLSVPV LGSLLLQVAL VAGIQLGGYF LVIAQPWFVP
LNRTVPAPDN LPNYENTVVF SLSGFQYLIL AAVSKGAPF RQPLYTNVPF LVALALLGSV
LVGLILVPG LQGPLGLRNI VDSSFLLLLL GLVAFNFVGA FMLESVLDQC LPACLRWLRP
KRASKKQFKR LQQELAHPW PTLPVGSVR **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: ATP13A2

Alternative Name: Atp13a2 ([ATP13A2 Products](#))

Target Details

Background: Polyamine-transporting ATPase 13A2 (EC 7.6.2.-),FUNCTION: ATPase which acts as a lysosomal polyamine exporter with high affinity for spermine (By similarity). Also stimulates cellular uptake of polyamines and protects against polyamine toxicity (By similarity). Plays a role in intracellular cation homeostasis and the maintenance of neuronal integrity (By similarity). Contributes to cellular zinc homeostasis (By similarity). Confers cellular protection against Mn(2+) and Zn(2+) toxicity and mitochondrial stress (By similarity). Required for proper lysosomal and mitochondrial maintenance (By similarity). Regulates the autophagy-lysosome pathway through the control of SYT11 expression at both transcriptional and post-translational levels (PubMed:27278822). Facilitates recruitment of deacetylase HDAC6 to lysosomes to deacetylate CTTN, leading to actin polymerization, promotion of autophagosome-lysosome fusion and completion of autophagy (PubMed:30538141). Promotes secretion of exosomes as well as secretion of SCNA via exosomes (By similarity). Plays a role in lipid homeostasis (By similarity). {ECO:0000250|UniProtKB:Q9NQ11, ECO:0000269|PubMed:27278822, ECO:0000269|PubMed:30538141}.

Molecular Weight: 126.4 kDa

UniProt: [Q9CTG6](#)

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