Datasheet for ABIN7552370

ATP11A Protein (AA 1-1134) (His tag)

Go to Product page

Overview

Quantity:	1 mg
Target:	ATP11A
Protein Characteristics:	AA 1-1134
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ATP11A protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant ATP11A Protein expressed in mammalian cells.
Sequence:	MDCSLVRTLV HRYCAGEENW VDSRTIYVGH REPPPGAEAY IPQRYPDNRI VSSKYTFWNF IPKNLFEQFR RVANFYFLII FLVQLIIDTP TSPVTSGLPL FFVITVTAIK QGYEDWLRHK ADNAMNQCPV HFIQHGKLVR KQSRKLRVGD IVMVKEDETF PCDLIFLSSN RGDGTCHVTT ASLDGESSHK THYAVQDTKG FHTEEDIGGL HATIECEQPQ PDLYKFVGRI NVYSDLNDPV VRPLGSENLL LRGATLKNTE KIFGVAIYTG METKMALNYQ SKSQKRSAVE KSMNAFLIVY LCILISKALI NTVLKYMWQS EPFRDEPWYN QKTESERQRN LFLKAFTDFL AFMVLFNYII PVSMYVTVEM QKFLGSYFIT WDEDMFDEET GEGPLVNTSD LNEELGQVEY IFTDKTGTLT ENNMEFKECC IEGHVYVPHV ICNGQVLPES SGIDMIDSSP SVNGREREEL FFRALCLCHT VQVKDDDSVD GPRKSPDGGK SCVYISSSPD EVALVEGVQR LGFTYLRLKD NYMEILNREN HIERFELLEI LSFDSVRRRM SVIVKSATGE IYLFCKGADS SIFPRVIEGK VDQIRARVER NAVEGLRTLC VAYKRLIQEE YEGICKLLQA AKVALQDREK KLAEAYEQIE KDLTLLGATA VEDRLQEKAA DTIEALQKAG IKVWVLTGDK METAAATCYA CKLFRRNTQL LELTTKRIEE

Product Details

	QSLHDVLFEL SKTVLRHSGS LTRDNLSGLS ADMQDYGLII DGAALSLIMK PREDGSSGNY RELFLEICRS CSAVLCCRMA PLQKAQIVKL IKFSKEHPIT LAIGDGANDV SMILEAHVGI GVIGKEGRQA ARNSDYAIPK FKHLKKMLLV HGHFYYIRIS ELVQYFFYKN VCFIFPQFLY QFFCGFSQQT LYDTAYLTLY NISFTSLPIL LYSLMEQHVG IDVLKRDPTL YRDVAKNALL RWRVFIYWTL LGLFDALVFF FGAYFVFENT TVTSNGQIFG NWTFGTLVFT VMVFTVTLKL ALDTHYWTWI NHFVIWGSLL FYVVFSLLWG GVIWPFLNYQ RMYYVFIQML SSGPAWLAIV LLVTISLLPD VLKKVLCRQL WPTATERVQT KSQCLSVEQS TIFMLSQTSS SLSF **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:	ATP11A
Alternative Name:	ATP11A (ATP11A Products)
Background:	Phospholipid-transporting ATPase IH (EC 7.6.2.1) (ATPase IS) (ATPase class VI type 11A) (P4-

Target Details

	ATPase flippase complex alpha subunit ATP11A),FUNCTION: Catalytic component of a P4-ATPase flippase complex which catalyzes the hydrolysis of ATP coupled to the transport of aminophospholipids, phosphatidylserines (PS) and phosphatidylethanolamines (PE), from the outer to the inner leaflet of the plasma membrane (PubMed:25315773, PubMed:25947375, PubMed:26567335, PubMed:29799007, PubMed:30018401, PubMed:36300302). Does not show flippase activity toward phosphatidylcholine (PC) (PubMed:34403372). Contributes to the maintenance of membrane lipid asymmetry with a specific role in morphogenesis of muscle cells. In myoblasts, mediates PS enrichment at the inner leaflet of plasma membrane, triggering PIEZO1-dependent Ca2+ influx and Rho GTPases signal transduction, subsequently leading to the assembly of cortical actomyosin fibers and myotube formation (PubMed:29799007). May be involved in the uptake of farnesyltransferase inhibitor drugs, such as lonafarnib. {ECO:0000269|PubMed:15860663, ECO:0000269|PubMed:25315773, ECO:0000269|PubMed:25947375, ECO:0000269|PubMed:26567335, ECO:0000269|PubMed:29799007, ECO:0000269|PubMed:30018401, ECO:0000269|PubMed:34403372, ECO:0000269|PubMed:36300302, ECO:0000305}.
Molecular Weight:	129.8 kDa
UniProt:	P98196

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