Datasheet for ABIN3116615

ATP11C Protein (AA 1-1132) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	ATP11C
Protein Characteristics:	AA 1-1132
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This ATP11C protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	MQMVPSLPPA SECAGEEKRV GTRTVFVGNH PVSETEAYIA QRFCDNRIVS SKYTLWNFLP KNLFEQFRRI ANFYFLIIFL VQVTVDTPTS PVTSGLPLFF VITVTAIKQG YEDCLRHRAD NEVNKSTVYI IENAKRVRKE SEKIKVGDVV EVQADETFPC DLILLSSCTT DGTCYVTTAS LDGESNCKTH YAVRDTIALC TAESIDTLRA AIECEQPQPD LYKFVGRINI YSNSLEAVAR SLGPENLLLK GATLKNTEKI YGVAVYTGME TKMALNYQGK SQKRSAVEKS INAFLIVYLF ILLTKAAVCT TLKYVWQSTP YNDEPWYNQK TQKERETLKV LKMFTDFLSF MVLFNFIIPV SMYVTVEMQK FLGSFFISWD KDFYDEEINE GALVNTSDLN EELGQVDYVF TDKTGTLTEN SMEFIECCID GHKYKGVTQE VDGLSQTDGT LTYFDKVDKN REELFLRALC LCHTVEIKTN DAVDGATESA ELTYISSSPD EIALVKGAKR YGFTFLGNRN GYMRVENQRK EIEEYELLHT LNFDAVRRRM SVIVKTQEGD ILLFCKGADS AVFPRVQNHE IELTKVHVER NAMDGYRTLC VAFKEIAPDD YERINRQLIE AKMALQDREE KMEKVFDDIE TNMNLIGATA VEDKLQDQAA

ETIEALHAAG LKVWVLTGDK METAKSTCYA CRLFQTNTEL LELTTKTIEE SERKEDRLHE LLIEYRKKLL HEFPKSTRSF KKAWTEHQEY GLIIDGSTLS LILNSSQDSS SNNYKSIFLQ ICMKCTAVLC CRMAPLQKAQ IVRMVKNLKG SPITLSIGDG ANDVSMILES HVGIGIKGKE GRQAARNSDY SVPKFKHLKK LLLAHGHLYY VRIAHLVQYF FYKNLCFILP QFLYQFFCGF SQQPLYDAAY LTMYNICFTS LPILAYSLLE QHINIDTLTS DPRLYMKISG NAMLQLGPFL YWTFLAAFEG TVFFFGTYFL FQTASLEENG KVYGNWTFGT IVFTVLVFTV TLKLALDTRF WTWINHFVIW GSLAFYVFFS FFWGGIIWPF LKQQRMYFVF AQMLSSVSTW LAIILLIFIS LFPEILLIVL KNVRRRSARR NLSCRRASDS LSARPSVRPL LLRTFSDESN VL

Sequence without tag. The proposed Strep-Tag is based on experience s 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.

Characteristics:

Key Benefits:

- Made in Germany - from design to production - by highly experienced protein experts.
- Protein expressed with ALiCE® and purified in one-step affinity chromatography
- These proteins are normally active (enzymatically functional) as our customers have reported (not tested by us and not guaranteed).
- 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.

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.

Expression System:

- ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from Nicotiana tabacum c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require post-translational modifications.
- During lysate production, the cell wall and other cellular components that are not required for protein production are removed, leaving only the protein production machinery and the mitochondria to drive the reaction. During our lysate completion steps, the additional components needed for protein production (amino acids, cofactors, etc.) are added to produce something that functions like a cell, but without the constraints of a living system - all that's needed is the DNA that codes for the desired protein!

Concentration:

Product Details

- The concentration of our recombinant proteins is measured using the absorbance at 280nm.
- The protein's absorbance will be measured against its specific reference buffer.
- We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.

Purification:	One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression System (AliCE®).
Purity:	> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).
Grade:	custom-made

Target Details

Target:	ATP11C
Alternative Name:	ATP11C (ATP11C Products)
Background:	Phospholipid-transporting ATPase IG (EC 7.6.2.1) (ATPase IQ) (ATPase class VI type 11C) (P4-ATPase flippase complex alpha subunit ATP11C),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:32493773, PubMed:24904167, PubMed:26567335). Major PS-flippase in immune cell subsets. In erythrocyte plasma membrane, it is required to maintain PS in the inner leaflet preventing its exposure on the surface. This asymmetric distribution is critical for the survival of erythrocytes in circulation since externalized PS is a phagocytic signal for erythrocyte clearance by splenic macrophages (PubMed:26944472). Required for B cell differentiation past the pro-B cell stage (By similarity). Seems to mediate PS flipping in pro-B cells (By similarity). May be involved in the transport of cholestatic bile acids (By similarity). {ECO:0000250|UniProtKB:Q9QZW0, ECO:0000269|PubMed:24904167, ECO:0000269|PubMed:25315773, ECO:0000269|PubMed:26944472, ECO:0000269|PubMed:32493773}.
Molecular Weight:	129.5 kDa
UniProt:	Q8NB49

Application Details

Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a

Application Details

	guarantee though.
Comment:	ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from Nicotiana tabacum c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require post-translational modifications. During lysate production, the cell wall and other cellular components that are not required for protein production are removed, leaving only the protein production machinery and the mitochondria to drive the reaction. During our lysate completion steps, the additional components needed for protein production (amino acids, cofactors, etc.) are added to produce something that functions like a cell, but without the constraints of a living system - all that's needed is the DNA that codes for the desired protein!
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer. Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol **Might differ depending on protein.**
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months