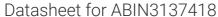
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ATP11C Protein (AA 1-1129) (rho-1D4 tag)



Image



Overview

Quantity:	1 mg
Target:	ATP11C
Protein Characteristics:	AA 1-1129
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ATP11C protein is labelled with rho-1D4 tag.
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)

Product Details

Sequence:

MFRRTLNRLC AGEEKRVGTR TVFVGNHPIS GTEPYIAQRF CDNRIVSSKY TLWNFLPKNL
FEQFRRIANF YFLIIFLVQV TVDTPTSPVT SGLPLFFVIT VTAIKQGYED WLRHRADNEV
NKSAVYIIEN AKRVRKESEK IKVGDVVEVQ ANETFPCDLI LLSSCTTDGT CYVTTASLDG
ESNCKTHYAV RDTIALCTAE SIDNLRATIE CEQPQPDLYR FVGRISIYSN SIEAVARSLG
PENLLLKGAT LKNTKKIYGV AVYTGMETKM ALNYQGKSQK CSAVEKSINA FLIVYLFILL
TKAAVCTTLK YVWQSSPYND EPWYNQKTQK ERETFQVLKM FTDFLSFMVL FNFIIPVSMY
VTVEMQKFLG SFFISWDKDF FDEEINEGAL VNTSDLNEEL GQVDYVFTDK TGTLTENSME
FIECCIDGHK YKGTTQEVDG LSQTDGPLAY FDKADKNREA LFLRALCLCH TVEMKTNDDV
DGPVEGAGFT YISSSPDEIA LVKGAKRFGF TFLGNQNGYI RVENQRKEIE EYELLHTLNF
DSVRRRMSVI VRTQKGDILL FCKGADSSIF PRVHSHQIEL TKDHVERNAM DGYRTLCVAF
KEIPPDDFER INAQLVEAKM ALQDREEKLE KVFDEIETNM NLIGATAVED KLQDQAAETI
EALHAAGLKV WVLTGDKMET AKSTCYACRL FQTNTELLEL TTKTIEESER KEDRLHELLI

EYRKKLLHEF PKSTRSLKKA WTEHQEYGLI IDGSTLSLIL NSSQDCSSNN YKSIFLQICM KCTAVLCCRM APLQKAQIVR MVKNLKGSPI TLSIGDGAND VSMILESHVG IGIKGKEGRQ AARNSDYSVP KFKHLKKLLL VHGHLYYVRI AHLVQYFFYK NLCFILPQFL YQFFCGFSQQ PLYDAAYLTM YNICFTSLPI LAYSLLEQHI NIDTLTADPR LYMKITGNAM LQLGPFLHWT FLAAFEGTVF FFGTYFLFQT SSLEDNGKIY GNWTFGTIVF TVLVFTVTLK LALDTRFWTW INHFVIWGSL AFYVFFSFFW GGIIWPFLKQ QRMYFVFAQM LCSVSTWLAI ILLIFISLFP EILLIVVKNV RRRSARRNLS CRRASDSLSA RPSVRPLLLR TFSDESNIL

Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a special request, please contact us.

Characteristics:

- Made in Germany from design to production by highly experienced protein experts.
- Mouse Atp11c Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade.
- 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 will ensure that you receive a correctly folded 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.

In the unlikely event that the protein cannot be expressed or purified we do not charge anything (other companies might charge you for any performed steps in the expression process for custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression experiments or purification optimization).

When you order this made-to-order protein you will only pay upon receival of the correctly folded protein. With no financial risk on your end you can rest assured that our experienced protein experts will do everything to make sure that you receive the protein you ordered. The concentration of our recombinant proteins is measured using the absorbance at 280nm. The protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer.

The concentration of the protein is calculated using its specific absorption coefficient. We use the Expasy's protparam tool to determine the absorption coefficient of each protein.

Purification:

Three step purification of membrane proteins expressed in baculovirus infected SF9 insect cells:

- 1. Membrane proteins are fractioned by ultracentrifugation and subsequently solubilized with different detergents (detergent screen). Samples are analyzed by Western blot.
- 2. The best performing detergent is used for solubilization and the proteins are purified via their

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	rho1D4 tag via two rho1D4 antibody columns: one DTT resistant, the other one not. Eluate fractions are analyzed by Western blot. 3. Protein containing fractions of the best purification are subjected to second purification step
	through size exclusion chromatograph. Eluate fractions are analyzed by SDS-PAGE and Western blot.
Purity:	>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Sterility:	0.22 μm filtered
Endotoxin Level:	Protein is endotoxin-free.
Grade:	Crystallography grade
Target Details	
Target:	ATP11C
Alternative Name:	Atp11c (ATP11C Products)
Background:	Catalytic component of a P4-ATPase flippase complex which catalyzes the hydrolysis of ATP
	coupled to the transport of aminophospholipids from the outer to the inner leaflet of various
	membranes and ensures the maintenance of asymmetric distribution of phospholipids.
	Phospholipid translocation seems also to be implicated in vesicle formation and in uptake of
	lipid signaling molecules. Required for B cell differentiation past the pro-B cell stage. Seems to
	mediate phosphatidylserine (PS) flipping in pro-B cells. May be involved in the transport of
	cholestatic bile acids. {ECO:0000269 PubMed:21423172, ECO:0000269 PubMed:21423173,
	ECO:0000269 PubMed:21518881}.
Molecular Weight:	130.4 kDa Including tag.
UniProt:	Q9QZW0
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 gurantee though.
Comment:	Protein has not been tested for activity yet. In cases in which it is highly likely that the
	recombinant protein with the default tag will be insoluble our protein lab may suggest a higher
	molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible
	options with you in detail to assure that you receive your protein of interest.

Application Details

Restrictions:	For Research Use only
Handling	
Format:	Liquid
Buffer:	100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value 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:	Unlimited (if stored properly)

Images

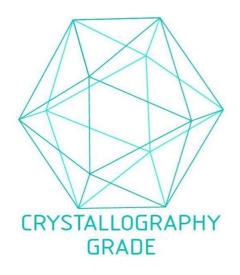


Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process