Datasheet for ABIN3133296 ATP-Binding Cassette, Sub-Family B (MDR/TAP), Member 1A (ABCB1A) (AA 1-1276) protein (rho-1D4 tag)

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Image

Overview

Quantity:	1 mg
Target:	ATP-Binding Cassette, Sub-Family B (MDR/TAP), Member 1A (ABCB1A)
Protein Characteristics:	AA 1-1276
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	rho-1D4 tag
Application:	Crystallization (Crys), ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Sequence:MELEEDLKGR ADKNFSKMGK KSKKEKKEKK PAVSVLTMFR YAGWLDRLYM LVGTLAAIIH
GVALPLMMLI FGDMTDSFAS VGNVSKNSTN MSEADKRAMF AKLEEEMTTY AYYYTGIGAG
VLIVAYIQVS FWCLAAGRQI HKIRQKFFHA IMNQEIGWFD VHDVGELNTR LTDDVSKINE
GIGDKIGMFF QAMATFFGGF IIGFTRGWKL TLVILAISPV LGLSAGIWAK ILSSFTDKEL
HAYAKAGAVA EEVLAAIRTV IAFGGQKKEL ERYNNNLEEA KRLGIKKAIT ANISMGAAFL
LIYASYALAF WYGTSLVISK EYSIGQVLTV FFSVLIGAFS VGQASPNIEA FANARGAAYE
VFKIIDNKPS IDSFSKSGHK PDNIQGNLEF KNIHFSYPSR KEVQILKGLN LKVKSGQTVA
LVGNSGCGKS TTVQLMQRLY DPLDGMVSID GQDIRTINVR YLREIIGVVS QEPVLFATTI
AENIRYGRED VTMDEIEKAV KEANAYDFIM KLPHQFDTLV GERGAQLSGG QKQRIAIARA
LVRNPKILLL DEATSALDTE SEAVVQAALD KAREGRTTIV IAHRLSTVRN ADVIAGFDGG
VIVEQGNHDE LMREKGIYFK LVMTQTAGNE IELGNEACKS KDEIDNLDMS SKDSGSSLIR
RRSTRKSICG PHDQDRKLST KEALDEDVPP ASFWRILKLN STEWPYFVVG IFCAIINGGL

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	QPAFSVIFSK VVGVFTNGGP PETQRQNSNL FSLLFLILGI ISFITFFLQG FTFGKAGEIL
	TKRLRYMVFK SMLRQDVSWF DDPKNTTGAL TTRLANDAAQ VKGATGSRLA VIFQNIANLG
	TGIIISLIYG WQLTLLLLAI VPIIAIAGVV EMKMLSGQAL KDKKELEGSG KIATEAIENF RTVVSLTREQ
	KFETMYAQSL QIPYRNAMKK AHVFGITFSF TQAMMYFSYA ACFRFGAYLV TQQLMTFENV
	LLVFSAIVFG AMAVGQVSSF APDYAKATVS ASHIIRIIEK TPEIDSYSTQ GLKPNMLEGN
	VQFSGVVFNY PTRPSIPVLQ GLSLEVKKGQ TLALVGSSGC GKSTVVQLLE RFYDPMAGSV
	FLDGKEIKQL NVQWLRAQLG IVSQEPILFD CSIAENIAYG DNSRVVSYEE IVRAAKEANI
	HQFIDSLPDK YNTRVGDKGT QLSGGQKQRI AIARALVRQP HILLLDEATS ALDTESEKVV
	QEALDKAREG RTCIVIAHRL STIQNADLIV VIQNGKVKEH GTHQQLLAQK GIYFSMVSVQ AGAKRS
	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 Abcb1a 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:

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	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
	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:	ATP-Binding Cassette, Sub-Family B (MDR/TAP), Member 1A (ABCB1A)

Energy-dependent efflux pump responsible for decreased drug accumulation in multidrug-

Abcb1a (ABCB1A Products)

141.8 kDa Including tag.

P21447

resistant cells. {ECO:0000269|PubMed:19325113}.

Application Details	

Alternative Name:

Molecular Weight:

Background:

UniProt:

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.
Restrictions:	For Research Use only
Handling	
Format:	Liquid

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Handling		
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

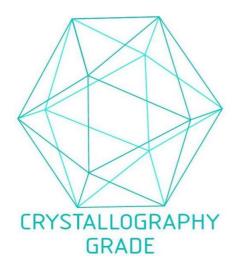


Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process

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