

Datasheet for ABIN3133293 ABCB4 Protein (AA 1-1276) (Strep Tag)



Overview

Quantity:	250 µg	
Target:	ABCB4	
Protein Characteristics:	AA 1-1276	
Origin:	Mouse	
Source:	Cell-free protein synthesis (CFPS)	
Protein Type:	Recombinant	
Purification tag / Conjugate:	This ABCB4 protein is labelled with Strep Tag.	
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA	

Product Details

Brand:	AliCE®	
Sequence:	MDLEAARNGT ARRLDGDFEL GSISNQGREK KKKVNLIGLL TLFRYSDWQD KLFMFLGTLM	
	AIAHGSGLPL MMIVFGEMTD KFVDNTGNFS LPVNFSLSML NPGRILEEEM TRYAYYYSGL	
	GGGVLVAAYI QVSFWTLAAG RQIKKIRQKF FHAILRQEMG WFDIKGTTEL NTRLTDDVSK	
	ISEGIGDKVG MFFQAIATFF AGFIVGFIRG WKLTLVIMAI SPILGLSTAV WAKILSTFSD	
	KELAAYAKAG AVAEEALGAI RTVIAFGGQN KELERYQKHL ENAKKIGIKK AISANISMGI	
	AFLLIYASYA LAFWYGSTLV ISKEYTIGNA MTVFFSILIG AFSVGQAAPC IDAFANARGA	
	AYVIFDIIDN NPKIDSFSER GHKPDNIKGN LEFSDVHFSY PSRANIKILK GLNLKVKSGQ	
	TVALVGNSGC GKSTTVQLLQ RLYDPTEGKI SIDGQDIRNF NVRCLREIIG VVSQEPVLFS	
	TTIAENIRYG RGNVTMDEIE KAVKEANAYD FIMKLPQKFD TLVGDRGAQL SGGQKQRIAI	
	ARALVRNPKI LLLDEATSAL DTESEAEVQA ALDKAREGRT TIVIAHRLST IRNADVIAGF	
	EDGVIVEQGS HSELMKKEGI YFRLVNMQTA GSQILSEEFE VELSDEKAAG DVAPNGWKAR	

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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 -

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Concentration:

- 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:	ABCB4	
Alternative Name:	Abcb4 (ABCB4 Products)	
Background:	Phosphatidylcholine translocator ABCB4 (EC 7.6.2.1) (ATP-binding cassette sub-family B	
	member 4) (Multidrug resistance protein 2) (Multidrug resistance protein 3) (P-glycoprotein 2)	
	(P-glycoprotein 3),FUNCTION: Energy-dependent phospholipid efflux translocator that acts as a	
	positive regulator of biliary lipid secretion. Functions as a floppase that translocates specifically	
	phosphatidylcholine (PC) from the inner to the outer leaflet of the canalicular membrane bilayer	
	into the canaliculi between hepatocytes. Translocation of PC makes the biliary phospholipids	
	available for extraction into the canaliculi lumen by bile salt mixed micelles and therefore	
	protects the biliary tree from the detergent activity of bile salts (PubMed:8106172,	
	PubMed:7912658, PubMed:7592705, PubMed:7814632, PubMed:8725158, PubMed:9366571).	
	Plays a role in the recruitment of phosphatidylcholine (PC), phosphatidylethanolamine (PE) and	
	sphingomyelin (SM) molecules to nonraft membranes and to further enrichment of SM and	
	cholesterol in raft membranes in hepatocytes (By similarity). Required for proper phospholipid	
	bile formation (PubMed:8106172). Indirectly involved in cholesterol efflux activity from	
	hepatocytes into the canalicular lumen in the presence of bile salts in an ATP-dependent	
	manner (PubMed:7814632, PubMed:8725158). May promote biliary phospholipid secretion as	
	canaliculi-containing vesicles from the canalicular plasma membrane (PubMed:9366571). In	
	cooperation with ATP8B1, functions to protect hepatocytes from the deleterious detergent	
	activity of bile salts (PubMed:21820390). Does not confer multidrug resistance	

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	(PubMed:1990275). {EC0:0000250 UniProtKB:P21439, EC0:0000269 PubMed:1990275,	
	ECO:0000269 PubMed:21820390, ECO:0000269 PubMed:7592705,	
	ECO:0000269 PubMed:7814632, ECO:0000269 PubMed:7912658,	
	ECO:0000269 PubMed:8106172, ECO:0000269 PubMed:8725158,	
	ECO:0000269 PubMed:9366571}.	
Molecular Weight:	140.4 kDa	
UniProt:	P21440	
Pathways:	Regulation of Lipid Metabolism by PPARalpha	
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 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.	

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Expiry Date:

12 months

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