

Datasheet for ABIN3112158

ABCB1 Protein (AA 1-1280) (Strep Tag)



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Overview

Quantity:	250 µg
Target:	ABCB1
Protein Characteristics:	AA 1-1280
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This ABCB1 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	<p>MDLEGDRNGG AKKKNFFKLN NKSEKDKKEK KPTVSVFSMF RYSNWLDKLY MVVGTLAAII</p> <p>HGAGLPLMML VFGEMTDIFA NAGNLEDLMS NITNRSDIND TGFFMNLEED MTRYAYYYSG</p> <p>IGAGVLVAAY IQVSFWCLAA GRQIHKIRKQ FFHAIMRQEI GWFDVHDVGE LNTRLTDDVS</p> <p>KINEGIGDKI GMFFQSMATF FTGFIVGFTR GWKLTIVILA ISPVLGLSAA VWAKILSSFT</p> <p>DKELLAYAKA GAVAEVLAA IRTVIAFGGQ KKELEYRNKN LEEAKRIGIK KAITANISIG AAFLLIYASY</p> <p>ALAFWYGTTL VLSGEYSIGQ VLTVFFSVLI GAFSVGQASP SIEAFANARG AAYEIFKIID</p> <p>NKPSIDSYSK SGHKPDNIKG NLEFRNVHFS YPSRKEVKIL KGLNLKVQSG QTVLVGNNSG</p> <p>CGKSTTVQLM QRLYDPTEGM VSVDGQDIRT INVRFLREII GVVSQEPVLF ATTIAENIRY</p> <p>GRENVTMDEI EKAVKEANAY DFIMKLPKHF DTLVGERGAQ LSGGQKQRIA IARALVRNPK</p> <p>ILLLDEATSA LDTESEAVVQ VALDKARKGR TTIVIAHRLS TVRNADVIAF FDDGVIVEKG</p> <p>NHDELMKEKG IYFKLVMTQT AGNEVELENA ADESKSEIDA LEMSSNDSRS SLIRKRSTRR</p>

SVRGSQAQDR KLSTKEALDE SIPPVSFWRI MKLNLTEWPY FVVGVFCAII NGGLQPAFAI
IFSKIIGVFT RIDDPETKRQ NSNLFSLFL ALGIISFITF FLQGFTFGKA GEILTKRLRY MVFRSMLRQD
VSWFDDPKNT TGALTTRLAN DAAQVKGAIG SRLAVITQNI ANLGTGIIIS FIYGWQLTLL LLAIVPIAI
AGVDEMMLLS GQALKDKKEL EGSGKIATEA IENFRTVVSL TQEQKFEHMY AQLQVPYRN
SLRKAHIFGI TFSFTQAMMY FSYAGCFRFG AYLVAKHLMS FEDVLLVFSA VVFGAMAVGQ
VSSFAPDYAK AKISAAHIIM IIEKTPLIDS YSTEGMLPNT LEGNVTFGEV VFNYPTRPDI
PVLQGLSLEV KKGQTLALVG SSGCGKSTVV QLLERFYDPL AGKVLLDGKE IKRLNVQWLR
AHLGIVSQEP ILFDCSIAEN IAYGDNSRVV SQEEIVRAAK EANIHAIES LPNKYSTKVG
DKGTQLSGGQ KQRIAIARAL VRQPHILLLD EATSALDTES EKVQVEALDK AREGRTCIVI
AHLSTIQNA DLIVVFQNGR VKEHGTHQQL LAQKGIYFSM VSVQAGTKRQ

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!

Product Details

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:	ABCB1
Alternative Name:	ABCB1 (ABCB1 Products)
Background:	<p>ATP-dependent translocase ABCB1 (ATP-binding cassette sub-family B member 1) (Multidrug resistance protein 1) (EC 7.6.2.2) (P-glycoprotein 1) (Phospholipid transporter ABCB1) (EC 7.6.2.1) (CD antigen CD243),FUNCTION: Translocates drugs and phospholipids across the membrane (PubMed:8898203, PubMed:2897240, PubMed:9038218, PubMed:35970996). Catalyzes the flop of phospholipids from the cytoplasmic to the exoplasmic leaflet of the apical membrane. Participates mainly to the flop of phosphatidylcholine, phosphatidylethanolamine, beta-D-glucosylceramides and sphingomyelins (PubMed:8898203). Energy-dependent efflux pump responsible for decreased drug accumulation in multidrug-resistant cells (PubMed:2897240, PubMed:9038218, PubMed:35970996). {ECO:0000269 PubMed:2897240, ECO:0000269 PubMed:35970996, ECO:0000269 PubMed:8898203, ECO:0000269 PubMed:9038218}.</p>
Molecular Weight:	141.5 kDa
UniProt:	P08183

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.
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Application Details

Comment:	<p>ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from <i>Nicotiana tabacum</i> 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.</p> <p>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!</p>
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Restrictions:	For Research Use only
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Handling

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