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ABCB5 Protein (AA 1-1257) (Strep Tag)



Image



Overview

Quantity:	1 mg
Target:	ABCB5
Protein Characteristics:	AA 1-1257
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This ABCB5 protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

Product Details

Sequence:

MENSERAEEM QENYQRNGTA EEQPKLRKEA VGSIEIFRFA DGLDITLMIL GILASLVNGA
CLPLMPLVLG EMSDNLISGC LVQTNTTNYQ NCTQSQEKLN EDMTLLTLYY VGIGVAALIF
GYIQISLWII TAARQTKRIR KQFFHSVLAQ DIGWFDSCDI GELNTRMTDD IDKISDGIGD
KIALLFQNMS TFSIGLAVGL VKGWKLTLVT LSTSPLIMAS AAACSRMVIS LTSKELSAYS
KAGAVAEEVL SSIRTVIAFR AQEKELQRYT QNLKDAKDFG IKRTIASKVS LGAVYFFMNG
TYGLAFWYGT SLILNGEPGY TIGTVLAVFF SVIHSSYCIG AAVPHFETFA IARGAAFHIF
QVIDKKPSID NFSTAGYKPE SIEGTVEFKN VSFNYPSRPS IKILKGLNLR IKSGETVALV
GLNGSGKSTV VQLLQRLYDP DDGFIMVDEN DIRALNVRHY RDHIGVVSQE PVLFGTTISN
NIKYGRDDVT DEEMERAARE ANAYDFIMEF PNKFNTLVGE KGAQMSGGQK QRIAIARALV
RNPKILILDE ATSALDSESK SAVQAALEKA SKGRTTIVVA HRLSTIRSAD LIVTLKDGML
AEKGAHAELM AKRGLYYSLV MSQDIKKADE QMESMTYSTE RKTNSLPLHS VKSIKSDFID
KAEESTQSKE ISLPEVSLLK ILKLNKPEWP FVVLGTLASV LNGTVHPVFS IIFAKIITMF

GNNDKTTLKH DAEIYSMIFV ILGVICFVSY FMQGLFYGRA GEILTMRLRH LAFKAMLYQD IAWFDEKENS TGGLTTILAI DIAQIQGATG SRIGVLTQNA TNMGLSVIIS FIYGWEMTFL ILSIAPVLAV TGMIETAAMT GFANKDKQEL KHAGKIATEA LENIRTIVSL TREKAFEQMY EEMLQTQHRN TSKKAQIIGS CYAFSHAFIY FAYAAGFRFG AYLIQAGRMT PEGMFIVFTA IAYGAMAIGE TLVLAPEYSK AKSGAAHLFA LLEKKPNIDS RSQEGKKPDT CEGNLEFREV SFFYPCRPDV FILRGLSLSI ERGKTVAFVG SSGCGKSTSV QLLQRLYDPV QGQVLFDGVD AKELNVQWLR SQIAIVPQEP VLFNCSIAEN IAYGDNSRVV PLDEIKEAAN AANIHSFIEG LPEKYNTQVG LKGAQLSGGQ KQRLAIARAL LQKPKILLLD EATSALDNDS EKVVQHALDK ARTGRTCLVV THRLSAIQNA DLIVVLHNGK IKEQGTHQEL LRNRDIYFKL VNAQSVQ

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 by multi-step, protein-specific process to ensure correct folding and modification.
- 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 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.

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 posttranslational 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:

- 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.
- We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.

Purification:

Two step purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®):

- 1. In a first purification step, the protein is purified from the cleared cell lysate using StrepTag capture material. Eluate fractions are analyzed by SDS-PAGE.
- Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.

Purity:

>80 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.

Endotoxin Level:

Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg)

Grade:

Target

Crystallography grade

ARCR5

Target Details

rarget.	ADCDO
Alternative Name:	ABCB5 (ABCB5 Products)
Background:	ATP-binding cassette sub-family B member 5 (ABCB5 P-gp) (P-glycoprotein ABCB5) (EC
	7.6.2.2), FUNCTION: Energy-dependent efflux transporter responsible for decreased drug
	accumulation in multidrug-resistant cells (PubMed:12960149, PubMed:22306008,
	PubMed:15899824, PubMed:15205344). Specifically present in limbal stem cells, where it plays
	a key role in corneal development and repair (By similarity). {ECO:0000250 UniProtKB:B5X0E4,
	ECO:0000269 PubMed:12960149, ECO:0000269 PubMed:15205344,
	ECO:0000269 PubMed:15899824, ECO:0000269 PubMed:22306008}.
Molecular Weight:	138.6 kDa
UniProt:	Q2M3G0

Application Details

Application Notes:

In addition to the applications listed above we expect the protein to work for functional studies

Application Details

	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. If you have a special request,
	please contact us.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)



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