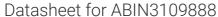
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ABCC3 Protein (AA 1-1527) (Strep Tag)





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Overview

Quantity:	1 mg
Target:	ABCC3
Protein Characteristics:	AA 1-1527
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This ABCC3 protein is labelled with Strep Tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA

Product Details

Sequence:

MDALCGSGEL GSKFWDSNLS VHTENPDLTP CFQNSLLAWV PCIYLWVALP CYLLYLRHHC
RGYIILSHLS KLKMVLGVLL WCVSWADLFY SFHGLVHGRA PAPVFFVTPL VVGVTMLLAT
LLIQYERLQG VQSSGVLIIF WFLCVVCAIV PFRSKILLAK AEGEISDPFR FTTFYIHFAL VLSALILACF
REKPPFFSAK NVDPNPYPET SAGFLSRLFF WWFTKMAIYG YRHPLEEKDL WSLKEEDRSQ
MVVQQLLEAW RKQEKQTARH KASAAPGKNA SGEDEVLLGA RPRPRKPSFL KALLATFGSS
FLISACFKLI QDLLSFINPQ LLSILIRFIS NPMAPSWWGF LVAGLMFLCS MMQSLILQHY
YHYIFVTGVK FRTGIMGVIY RKALVITNSV KRASTVGEIV NLMSVDAQRF MDLAPFLNLL
WSAPLQIILA IYFLWQNLGP SVLAGVAFMV LLIPLNGAVA VKMRAFQVKQ MKLKDSRIKL
MSEILNGIKV LKLYAWEPSF LKQVEGIRQG ELQLLRTAAY LHTTTTFTWM CSPFLVTLIT
LWVYVYVDPN NVLDAEKAFV SVSLFNILRL PLNMLPQLIS NLTQASVSLK RIQQFLSQEE
LDPQSVERKT ISPGYAITIH SGTFTWAQDL PPTLHSLDIQ VPKGALVAVV GPVGCGKSSL
VSALLGEMEK LEGKVHMKGS VAYVPQQAWI QNCTLQENVL FGKALNPKRY QQTLEACALL

ADLEMLPGGD QTEIGEKGIN LSGGQRQRVS LARAVYSDAD IFLLDDPLSA VDSHVAKHIF
DHVIGPEGVL AGKTRVLVTH GISFLPQTDF IIVLADGQVS EMGPYPALLQ RNGSFANFLC
NYAPDEDQGH LEDSWTALEG AEDKEALLIE DTLSNHTDLT DNDPVTYVVQ KQFMRQLSAL
SSDGEGQGRP VPRRHLGPSE KVQVTEAKAD GALTQEEKAA IGTVELSVFW DYAKAVGLCT
TLAICLLYVG QSAAAIGANV WLSAWTNDAM ADSRQNNTSL RLGVYAALGI LQGFLVMLAA
MAMAAGGIQA ARVLHQALLH NKIRSPQSFF DTTPSGRILN CFSKDIYVVD EVLAPVILML
LNSFFNAIST LVVIMASTPL FTVVILPLAV LYTLVQRFYA ATSRQLKRLE SVSRSPIYSH
FSETVTGASV IRAYNRSRDF EIISDTKVDA NQRSCYPYII SNRWLSIGVE FVGNCVVLFA
ALFAVIGRSS LNPGLVGLSV SYSLQVTFAL NWMIRMMSDL ESNIVAVERV KEYSKTETEA
PWVVEGSRPP EGWPPRGEVE FRNYSVRYRP GLDLVLRDLS LHVHGGEKVG IVGRTGAGKS
SMTLCLFRIL EAAKGEIRID GLNVADIGLH DLRSQLTIIP QDPILFSGTL RMNLDPFGSY
SEEDIWWALE LSHLHTFVSS QPAGLDFQCS EGGENLSVGQ RQLVCLARAL LRKSRILVLD
EATAAIDLET DNLIQATIRT QFDTCTVLTI AHRLNTIMDY TRVLVLDKGV VAEFDSPANL
IAARGIFYGM ARDAGLA

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

ABCC3

Target Details

Alternative Name:	ABCC3 (ABCC3 Products)
Background:	ATP-binding cassette sub-family C member 3 (EC 7.6.2) (EC 7.6.2.2) (EC 7.6.2.3) (Canalicular
	multispecific organic anion transporter 2) (Multi-specific organic anion transporter D) (MOAT-D)
	(Multidrug resistance-associated protein 3),FUNCTION: ATP-dependent transporter of the ATP-
	binding cassette (ABC) family that binds and hydrolyzes ATP to enable active transport of
	various substrates including many drugs, toxicants and endogenous compound across cell
	membranes (PubMed:11581266, PubMed:15083066, PubMed:10359813). Transports
	glucuronide conjugates such as bilirubin diglucuronide, estradiol-17-beta-o-glucuronide and

GSH conjugates such as leukotriene C4 (LTC4) (PubMed:15083066, PubMed:11581266). Transports also various bile salts (taurocholate, glycocholate, taurochenodeoxycholate-3-sulfate, taurolithocholate- 3-sulfate) (By similarity). Does not contribute substantially to bile salt physiology but provides an alternative route for the export of bile acids and glucuronides from cholestatic hepatocytes (By similarity). May contribute to regulate the transport of organic compounds in testes across the blood-testis-barrier (Probable). Can confer resistance to various anticancer drugs, methotrexate, tenoposide and etoposide, by decreasing accumulation of these drugs in cells (PubMed:11581266, PubMed:10359813). {ECO:0000250|UniProtKB:088563, ECO:0000269|PubMed:10359813, ECO:0000269|PubMed:11581266, ECO:0000269|PubMed:15083066, ECO:0000305|PubMed:35307651}.

Molecular Weight:

169.3 kDa

UniProt:

015438

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. If you have a special request,

Handling

	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)

Images

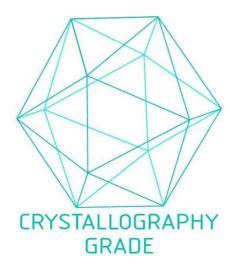


Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process