

Datasheet for ABIN3088222 ACLY Protein (AA 1-1101) (Strep Tag)



Overview

Quantity:	250 µg
Target:	ACLY
Protein Characteristics:	AA 1-1101
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This ACLY protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	MSAKAISEQT GKELLYKFIC TTSAIQNRFK YARVTPDTDW ARLLQDHPWL LSQNLVVKPD
	QLIKRRGKLG LVGVNLTLDG VKSWLKPRLG QEATVGKATG FLKNFLIEPF VPHSQAEEFY
	VCIYATREGD YVLFHHEGGV DVGDVDAKAQ KLLVGVDEKL NPEDIKKHLL VHAPEDKKEI
	LASFISGLFN FYEDLYFTYL EINPLVVTKD GVYVLDLAAK VDATADYICK VKWGDIEFPP
	PFGREAYPEE AYIADLDAKS GASLKLTLLN PKGRIWTMVA GGGASVVYSD TICDLGGVNE
	LANYGEYSGA PSEQQTYDYA KTILSLMTRE KHPDGKILII GGSIANFTNV AATFKGIVRA
	IRDYQGPLKE HEVTIFVRRG GPNYQEGLRV MGEVGKTTGI PIHVFGTETH MTAIVGMALG
	HRPIPNQPPT AAHTANFLLN ASGSTSTPAP SRTASFSESR ADEVAPAKKA KPAMPQDSVP
	SPRSLQGKST TLFSRHTKAI VWGMQTRAVQ GMLDFDYVCS RDEPSVAAMV YPFTGDHKQK
	FYWGHKEILI PVFKNMADAM RKHPEVDVLI NFASLRSAYD STMETMNYAQ IRTIAIIAEG
	IPEALTRKLI KKADQKGVTI IGPATVGGIK PGCFKIGNTG GMLDNILASK LYRPGSVAYV

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 1/4 | Product datasheet for ABIN3088222 | 02/25/2025 | Copyright antibodies-online. All rights reserved.

	SRSGGMSNEL NNIISRTTDG VYEGVAIGGD RYPGSTFMDH VLRYQDTPGV KMIVVLGEIG
	GTEEYKICRG IKEGRLTKPI VCWCIGTCAT MFSSEVQFGH AGACANQASE TAVAKNQALK
	EAGVFVPRSF DELGEIIQSV YEDLVANGVI VPAQEVPPPT VPMDYSWARE LGLIRKPASF
	MTSICDERGQ ELIYAGMPIT EVFKEEMGIG GVLGLLWFQK RLPKYSCQFI EMCLMVTADH
	GPAVSGAHNT IICARAGKDL VSSLTSGLLT IGDRFGGALD AAAKMFSKAF DSGIIPMEFV
	NKMKKEGKLI MGIGHRVKSI NNPDMRVQIL KDYVRQHFPA TPLLDYALEV EKITTSKKPN
	LILNVDGLIG VAFVDMLRNC GSFTREEADE YIDIGALNGI FVLGRSMGFI GHYLDQKRLK
	QGLYRHPWDD ISYVLPEHMS M
	QGLYRHPWDD ISYVLPEHMS M Sequence without tag. The proposed Strep-Tag is based on experience s with the expression
	Sequence without tag. The proposed Strep-Tag is based on experience s with the expression
Characteristics:	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
Characteristics:	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:	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. Key Benefits:
Characteristics:	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. Key Benefits: • Made in Germany - from design to production - by highly experienced protein experts.
Characteristics:	 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. 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

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 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:

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 2/4 | Product datasheet for ABIN3088222 | 02/25/2025 | Copyright antibodies-online. All rights reserved.

- 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:	ACLY
Alternative Name:	ACLY (ACLY Products)
Background:	ATP-citrate synthase (EC 2.3.3.8) (ATP-citrate (pro-S-)-lyase) (ACL) (Citrate cleavage enzyme),FUNCTION: Catalyzes the cleavage of citrate into oxaloacetate and acetyl-CoA, the latter serving as common substrate for de novo cholesterol and fatty acid synthesis. {ECO:0000269 PubMed:10653665, ECO:0000269 PubMed:1371749, ECO:0000269 PubMed:19286649, ECO:0000269 PubMed:23932781, ECO:0000269 PubMed:9116495}.
Molecular Weight:	120.8 kDa
UniProt:	P53396
Pathways:	Warburg Effect

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

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 3/4 | Product datasheet for ABIN3088222 | 02/25/2025 | Copyright antibodies-online. All rights reserved.

Application Details	
	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
Format: Buffer:	Liquid The buffer composition is at the discretion of the manufacturer. Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol Might differ depending on protein.
	The buffer composition is at the discretion of the manufacturer.
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.
Buffer: Handling Advice:	The buffer composition is at the discretion of the manufacturer. Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol Might differ depending on protein. Avoid repeated freeze-thaw cycles.