

Datasheet for ABIN3134718 ADCY8 Protein (AA 1-1249) (Strep Tag)



Overview

Quantity:	250 µg
Target:	ADCY8
Protein Characteristics:	AA 1-1249
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This ADCY8 protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

Product Details

Brand:	AliCE®
Sequence:	MELSDVHCLS GSEELYTIQP TPPAGDDGSG SRPQRLLWQT AVRHITEQRF IHGHRGGGGG
	GVSRKASNPA GSGPNHHAPQ LSSDSVLPLY SLGPGERAHN TGGTKVFPER SGSGSASGSG
	GGGDLGFLHL DCAPSNSDFF LNGGYSYRGV IFPTLRNSFK SRDLERLYQR YFLGQRRKSE
	VVMNVLDVLT KLTLLVLHLS LASAPMDPLK GILLGFFTGI EVVICALVVV RKDNTSHTYL
	QYSGVVTWVA MTTQILAAGL GYGLLGDGIG YVLFTLFATY SMLPLPLTWA ILAGLGTSLL
	QVTLQVLIPR LAVFSINQVL AQVVLFMCMN TAGIFISYLS DRAQRQAFLE TRRCVEARLR
	LETENQRQER LVLSVLPRFV VLEMINDMTN VEDEHLQHQF HRIYIHRYEN VSILFADVKG
	FTNLSTTLSA QELVRMLNEL FARFDRLAHE HHCLRIKILG DCYYCVSGLP EPRRDHAHCC
	VEMGLSMIKT IRFVRSRTKH DVDMRIGIHS GSVLCGVLGL RKWQFDVWSW DVDIANKLES
	GGIPGRIHIS KATLDCLNGD YNVEEGHGKE RNEFLRKHNI ETYLIKQPEE SLLCLPEDIV
	KESVSCSDRR NSGATFTEGS WSPELPFDNI VGKQNTLAAL TRNSINLLPN HLAQALHVQS

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 ABIN3134718 | 02/25/2025 | Copyright antibodies-online. All rights reserved. GPEEINKRIE HTIDLRSGDK LRREHIKPFS LMFKDSSLEH KYSQMRDEVF KSNLVCAFIV LLFITAIQSL LPSSRLMPMT IQFSILIMLH SALVLITTAE DYKCLPLILR KTCCWINETY LARNVIIFAS ILINFLGAVL NILWCDFDKS IPLKNLTFNS SAVFTDICSY PEYFVFTGVL AMVTCAVFLR LNSVLKLAVL LIMIAIYALL TETIYAGLFL SYDNLNHSGE DFLGTKEASL LLMAMFLLAV FYHGQQLEYT ARLDFLWRVQ AKEEINEMKE LREHNENMLR NILPSHVARH FLEKDRDNEE LYSQSYDAVG VMFASIPGFA DFYSQTEMNN QGVECLRLLN EIIADFDELL GEDRFQDIEK IKTIGSTYMA VSGLSPEKQQ CEDKWGHLCA LADFSLALTE SIQEINKHSF NNFELRIGIS HGSVVAGVIG AKKPQYDIWG KTVNLASRMD STGVSGRIQV PEETYLILKD QGFAFDYRGE IYVKGISEQE GKIKTYFLLG RVQPNPFILP PRRLPGQYSL AAVVLGLVQS LNRQRQKQLL NENSNSGIIK SHYNRRTLLT PSGPEPGAQA EGTDKSDLP

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 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!

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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:	ADCY8
Alternative Name:	Adcy8 (ADCY8 Products)
Background:	Adenylate cyclase type 8 (EC 4.6.1.1) (ATP pyrophosphate-lyase 8) (Adenylate cyclase type VIII)
	(Adenylyl cyclase 8) (Ca(2+)/calmodulin-activated adenylyl cyclase),FUNCTION: Catalyzes the
	formation of cAMP in response to calcium entry leadings to cAMP signaling activation that
	affect processes suche as synaptic plasticity and insulin secretion (PubMed:10864938,
	PubMed:25403481, PubMed:10482244, PubMed:14585998, PubMed:18448650). Plays a role in
	many brain functions, such as learning, memory, drug addiction, and anxiety modulation
	through regulation of synaptic plasticity by modulating long-term memory and long-term
	potentiation (LTP) through CREB transcription factor activity modulation (PubMed:10482244,
	PubMed:14585998, PubMed:18448650, PubMed:10864938, PubMed:12441059,
	PubMed:20638449, PubMed:27234425, PubMed:18222416). Plays a central role in insulin
	secretion by controlling glucose homeostasis through glucagon-like peptide 1 and glucose
	signaling pathway and maintains insulin secretion through calcium-dependent PKA activation
	leading to vesicle pool replenishment (PubMed:25403481). Also, allows PTGER3 to induce
	potentiation of PTGER4-mediated PLA2 secretion by switching from a negative to a positive
	regulation, during the IL1B induced-dedifferentiation of smooth muscle cells (By similarity).
	{ECO:0000250 UniProtKB:P40146, ECO:0000269 PubMed:10482244,
	ECO:0000269 PubMed:10864938, ECO:0000269 PubMed:12441059,
	ECO:0000269 PubMed:14585998, ECO:0000269 PubMed:18222416,
	ECO:0000269 PubMed:18448650, ECO:0000269 PubMed:20638449,
	ECO:0000269 PubMed:25403481, ECO:0000269 PubMed:27234425}.

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Target Details	
Molecular Weight:	140.1 kDa
UniProt:	P97490
Pathways:	EGFR Signaling Pathway, Neurotrophin Signaling Pathway, Thyroid Hormone Synthesis, cAMP Metabolic Process, Myometrial Relaxation and Contraction, G-protein mediated Events, Interaction of EGFR with phospholipase C-gamma
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.
Expiry Date:	12 months

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