

# Datasheet for ABIN3110015 ADCY6 Protein (AA 1-1168) (Strep Tag)



Overview

Quantity:	250 µg
Target:	ADCY6
Protein Characteristics:	AA 1-1168
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This ADCY6 protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

### Product Details

Brand:	AliCE®
Sequence:	MSWFSGLLVP KVDERKTAWG ERNGQKRSRR RGTRAGGFCT PRYMSCLRDA EPPSPTPAGP
	PRCPWQDDAF IRRGGPGKGK ELGLRAVALG FEDTEVTTTA GGTAEVAPDA VPRSGRSCWR
	RLVQVFQSKQ FRSAKLERLY QRYFFQMNQS SLTLLMAVLV LLTAVLLAFH AAPARPQPAY
	VALLACAAAL FVGLMVVCNR HSFRQDSMWV VSYVVLGILA AVQVGGALAA DPRSPSAGLW
	CPVFFVYIAY TLLPIRMRAA VLSGLGLSTL HLILAWQLNR GDAFLWKQLG ANVLLFLCTN
	VIGICTHYPA EVSQRQAFQE TRGYIQARLH LQHENRQQER LLLSVLPQHV AMEMKEDINT
	KKEDMMFHKI YIQKHDNVSI LFADIEGFTS LASQCTAQEL VMTLNELFAR FDKLAAENHC
	LRIKILGDCY YCVSGLPEAR ADHAHCCVEM GVDMIEAISL VREVTGVNVN MRVGIHSGRV
	HCGVLGLRKW QFDVWSNDVT LANHMEAGGR AGRIHITRAT LQYLNGDYEV EPGRGGERNA
	YLKEQHIETF LILGASQKRK EEKAMLAKLQ RTRANSMEGL MPRWVPDRAF SRTKDSKAFR
	QMGIDDSSKD NRGTQDALNP EDEVDEFLSR AIDARSIDQL RKDHVRRFLL TFQREDLEKK

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	YSRKVDPRFG AYVACALLVF CFICFIQLLI FPHSTLMLGI YASIFLLLLI TVLICAVYSC GSLFPKALQF
	LSRSIVRSRA HSTAVGIFSV LLVFTSAIAN MFTCNHTPIR SCAARMLNLT PADITACHLQ
	QLNYSLGLDA PLCEGTMPTC SFPEYFIGNM LLSLLASSVF LHISSIGKLA MIFVLGLIYL
	VLLLLGPPAT IFDNYDLLLG VHGLASSNET FDGLDCPAAG RVALKYMTPV ILLVFALALY
	LHAQQVESTA RLDFLWKLQA TGEKEEMEEL QAYNRRLLHN ILPKDVAAHF LARERRNDEL
	YYQSCECVAV MFASIANFSE FYVELEANNE GVECLRLLNE IIADFDEIIS EERFRQLEKI
	KTIGSTYMAA SGLNASTYDQ VGRSHITALA DYAMRLMEQM KHINEHSFNN FQMKIGLNMG
	PVVAGVIGAR KPQYDIWGNT VNVSSRMDST GVPDRIQVTT DLYQVLAAKG YQLECRGVVK
	VKGKGEMTTY FLNGGPSS
	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 yo
	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 <b>made-to-order protein</b> 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 proteir
	cannot be expressed or purified.
	Expression System:
	<ul> <li>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.</li> <li>During lysate production, the cell wall and other cellular components that are not required f protein production are removed, leaving only the protein production machinery and the</li> </ul>
	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:	ADCY6
Alternative Name:	ADCY6 (ADCY6 Products)
Background:	Adenylate cyclase type 6 (EC 4.6.1.1) (ATP pyrophosphate-lyase 6) (Adenylate cyclase type VI)
	(Adenylyl cyclase 6) (Ca(2+)-inhibitable adenylyl cyclase),FUNCTION: Catalyzes the formation of
	the signaling molecule cAMP downstream of G protein-coupled receptors (PubMed:17916776,
	PubMed:17110384). Functions in signaling cascades downstream of beta-adrenergic receptors
	in the heart and in vascular smooth muscle cells (PubMed:17916776). Functions in signaling
	cascades downstream of the vasopressin receptor in the kidney and has a role in renal water
	reabsorption. Functions in signaling cascades downstream of PTH1R and plays a role in
	regulating renal phosphate excretion. Functions in signaling cascades downstream of the VIP
	and SCT receptors in pancreas and contributes to the regulation of pancreatic amylase and
	fluid secretion (By similarity). Signaling mediates cAMP-dependent activation of protein kinase
	PKA. This promotes increased phosphorylation of various proteins, including AKT. Plays a role
	in regulating cardiac sarcoplasmic reticulum Ca(2+) uptake and storage, and is required for
	normal heart ventricular contractibility. May contribute to normal heart function (By similarity).
	Mediates vasodilatation after activation of beta-adrenergic receptors by isoproterenol
	(PubMed:17916776). Contributes to bone cell responses to mechanical stimuli (By similarity).
	{EC0:0000250 UniProtKB:Q01341, EC0:0000250 UniProtKB:Q03343,
	ECO:0000269 PubMed:17110384, ECO:0000269 PubMed:17916776}.
Molecular Weight:	130.6 kDa
UniProt:	043306
Pathways:	EGFR Signaling Pathway, Neurotrophin Signaling Pathway, Thyroid Hormone Synthesis, cAMP

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## Target Details

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 <b>Might differ depending on protein.</b>
Handling Advice:	Avoid repeated freeze-thaw cycles.

	Avoid repeated neeze thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months

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