

Datasheet for ABIN3116721 **ADCY4 Protein (AA 1-1077) (Strep Tag)**



Overview

Quantity:	250 μg
Target:	ADCY4
Protein Characteristics:	AA 1-1077
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This ADCY4 protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

Product Details	
Brand:	AliCE®
Sequence:	MARLFSPRPP PSEDLFYETY YSLSQQYPLL LLLLGIVLCA LAALLAVAWA SGRELTSDPS
	FLTTVLCALG GFSLLLGLAS REQRLQRWTR PLSGLVWVAL LALGHAFLFT GGVVSAWDQV
	SYFLFVIFTA YAMLPLGMRD AAVAGLASSL SHLLVLGLYL GPQPDSRPAL LPQLAANAVL
	FLCGNVAGVY HKALMERALR ATFREALSSL HSRRRLDTEK KHQEHLLLSI LPAYLAREMK
	AEIMARLQAG QGSRPESTNN FHSLYVKRHQ GVSVLYADIV GFTRLASECS PKELVLMLNE
	LFGKFDQIAK EHECMRIKIL GDCYYCVSGL PLSLPDHAIN CVRMGLDMCR AIRKLRAATG
	VDINMRVGVH SGSVLCGVIG LQKWQYDVWS HDVTLANHME AGGVPGRVHI TGATLALLAG
	AYAVEDAGME HRDPYLRELG EPTYLVIDPR AEEEDEKGTA GGLLSSLEGL KMRPSLLMTR
	YLESWGAAKP FAHLSHGDSP VSTSTPLPEK TLASFSTQWS LDRSRTPRGL DDELDTGDAK
	FFQVIEQLNS QKQWKQSKDF NPLTLYFREK EMEKEYRLSA IPAFKYYEAC TFLVFLSNFI
	IQMLVTNRPP ALAITYSITF LLFLLILFVC FSEDLMRCVL KGPKMLHWLP ALSGLVATRP

GLRIALGTAT ILLVFAMAIT SLFFFPTSSD CPFQAPNVSS MISNLSWELP GSLPLISVPY
SMHCCTLGFL SCSLFLHMSF ELKLLLLLW LAASCSLFLH SHAWLSECLI VRLYLGPLDS
RPGVLKEPKL MGAISFFIFF FTLLVLARQN EYYCRLDFLW KKKLRQEREE TETMENLTRL
LLENVLPAHV APQFIGQNRR NEDLYHQSYE CVCVLFASVP DFKEFYSESN INHEGLECLR
LLNEIIADFD ELLSKPKFSG VEKIKTIGST YMAATGLNAT SGQDAQQDAE RSCSHLGTMV
EFAVALGSKL DVINKHSFNN FRLRVGLNHG PVVAGVIGAQ KPQYDIWGNT VNVASRMEST
GVLGKIQVTE ETAWALQSLG YTCYSRGVIK VKGKGQLCTY FLNTDLTRTG PPSATLG

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!

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: ADCY4 Alternative Name: ADCY4 (ADCY4 Products) Background: Adenylate cyclase type 4 (EC 4.6.1.1) (ATP pyrophosphate-lyase 4) (Adenylate cyclase type IV) (Adenylyl cyclase 4), FUNCTION: Catalyzes the formation of the signaling molecule cAMP in response to G-protein signaling. {ECO:0000250|UniProtKB:P26770}. Molecular Weight: 119.8 kDa UniProt **08NFM4** EGFR Signaling Pathway, Neurotrophin Signaling Pathway, Thyroid Hormone Synthesis, cAMP Pathways: Metabolic Process, Myometrial Relaxation and Contraction, G-protein mediated Events, Interaction of EGFR with phospholipase C-gamma **Application Details** In addition to the applications listed above we expect the protein to work for functional studies **Application Notes:** 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

Application Details

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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