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ADCY1 Protein (AA 1-1119) (Strep Tag)





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Overview

Quantity:	1 mg
Target:	ADCY1
Protein Characteristics:	AA 1-1119
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This ADCY1 protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

Product Details

Sequence:

MAGAPRGGGG GGGGAGEPGG AERAAGTSRR RGLRACDEEF ACPELEALFR GYTLRLEQAA
TLKALAVLSL LAGALALAEL LGAPGPAPGL AKGSHPVHCV LFLALLVVTN VRSLQVPQLQ
QVGQLALLFS LTFALLCCPF ALGGPARGSA GAAGGPATAE QGVWQLLLVT FVSYALLPVR
SLLAIGFGLV VAASHLLVTA TLVPAKRPRL WRTLGANALL FVGVNMYGVF VRILTERSQR
KAFLQARSCI EDRLRLEDEN EKQERLLMSL LPRNVAMEMK EDFLKPPERI FHKIYIQRHD
NVSILFADIV GFTGLASQCT AQELVKLLNE LFGKFDELAT ENHCRRIKIL GDCYYCVSGL
TQPKTDHAHC CVEMGLDMID TITSVAEATE VDLNMRVGLH TGRVLCGVLG LRKWQYDVWS
NDVTLANVME AAGLPGKVHI TKTTLACLNG DYEVEPGYGH ERNSFLKTHN IETFFIVPSH
RRKIFPGLIL SDIKPAKRMK FKTVCYLLVQ LMHCRKMFKA EIPFSNVMTC EDDDKRRALR
TASEKLRNRS SFSTNVVYTT PGTRVNRYIS RLLEARQTEL EMADLNFFTL KYKHVEREQK
YHQLQDEYFT SAVVLTLILA ALFGLVYLLI FPQSVVVLLL LVFCICFLVA CVLYLHITRV
QCFPGCLTIQ IRTVLCIFIV VLIYSVAQGC VVGCLPWAWS SKPNSSLVVL SSGGQRTALP

TLPCESTHHA LLCCLVGTLP LAIFFRVSSL PKMILLSGLT TSYILVLELS GYTRTGGGAV SGRSYEPIVA ILLFSCALAL HARQVDIRLR LDYLWAAQAE EEREDMEKVK LDNRRILFNL LPAHVAQHFL MSNPRNMDLY YQSYSQVGVM FASIPNFNDF YIELDGNNMG VECLRLLNEI IADFDELMEK DFYKDIEKIK TIGSTYMAAV GLAPTSGTKA KKSISSHLST LADFAIEMFD VLDEINYQSY NDFVLRVGIN VGPVVAGVIG ARRPQYDIWG NTVNVASRMD STGVQGRIQV TEEVHRLLRR CPYHFVCRGK VSVKGKGEML TYFLEGRTDG NGSQIRSLGL DRKMCPFGRA GLQGRRPPVC PMPGVSVRAG LPPHSPGQYL PSAAAGKEA

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:

Crystallography grade

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Target Details

Target:	ADCY1
Alternative Name:	ADCY1 (ADCY1 Products)
Background:	Adenylate cyclase type 1 (EC 4.6.1.1) (ATP pyrophosphate-lyase 1) (Adenylate cyclase type I)
	(Adenylyl cyclase 1) (Ca(2+)/calmodulin-activated adenylyl cyclase),FUNCTION: Catalyzes the
	formation of the signaling molecule cAMP in response to G-protein signaling. Mediates
	responses to increased cellular Ca(2+)/calmodulin levels (By similarity). May be involved in
	regulatory processes in the central nervous system. May play a role in memory and learning.
	Plays a role in the regulation of the circadian rhythm of daytime contrast sensitivity probably by
	modulating the rhythmic synthesis of cyclic AMP in the retina (By similarity).
	{ECO:0000250 UniProtKB:088444, ECO:0000250 UniProtKB:P19754}.
Molecular Weight:	123.4 kDa
UniProt:	Q08828
Pathways:	EGFR Signaling Pathway, Neurotrophin Signaling Pathway, Thyroid Hormone Synthesis, cAMP
	Metabolic Process, Myometrial Relaxation and Contraction, G-protein mediated Events,

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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. If you have a special request, 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)

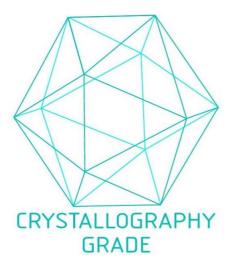


Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process