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ADCY2 Protein (AA 1-1090) (Strep Tag)



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Quantity:	1 mg	
Target:	ADCY2	
Protein Characteristics:	AA 1-1090	
Origin:	Mouse	
Source:	Tobacco (Nicotiana tabacum)	
Protein Type:	Recombinant	
Purification tag / Conjugate:	This ADCY2 protein is labelled with Strep Tag.	
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA	

Product Details

Sequence: MRRRRYLRDR AEAAAAAAG GGEGLQRSRD WLYESYYCMS QQHPLIVFLL LIVMGACLAL

YLFMCFGGTV SAWDQVSFFL FIIFVVYTML PFNMRDAIIA SVLTSSSHTI VLSVYLSATP GAKEHLFWQI LANVIIFICG NLAGAYHKHL MELALQQTYR DTCNCIKSRI KLEFEKRQQE

LAVFFALGLE VEDHVAFLIT VPTALAIFFA IFILVCIESV FKKLLRVFSL VIWICLVAMG

RLLLSLLPAH IAMEMKAEII QRLQGPKAGQ MENTNNFHNL YVKRHTNVSI LYADIVGFTR

LASDCSPGEL VHMLNELFGK FDQIAKENEC MRIKILGDCY YCVSGLPISL PNHAKNCVKM

GLDMCEAIKK VRDATGVDIN MRVGVHSGNV LCGVIGLQKW QYDVWSHDVT LANHMEAGGV

PGRVHISSVT LEHLNGAYKV EEGDGEIRDP YLKQHLVKTY FVINPKGERR SPQHLFRPRH

TLDGAKMRAS VRMTRYLESW GAAKPFAHLH HRDSMTTENG KISTTDVPMG QHNFQNRTLR

TKSQKKRFEE ELNERMIQAI DGINAQKQWL KSEDIQRISL FFYNKNIEKE YRATALPAFK

YYVTCACLIF LCIFIVQILV LPKTSILGFS FGAAFLSLIF ILFVCFAGQL LQCSKKASAS LLWLLKSSGI

IANRPWPRIS LTIVTTAIIL TMAVFNMFFL SNSEETTLPT ANASNANVSV PDNQTAILHA

RNLFFLPYFI YSCILGLISC SVFLRVNYEL KMLIMMVALV GYNIILLHTH AHVLDAYSQV
LFQRPGIWKD LKTMGSVSLS IFFITLLVLG RQSEYYCRLD FLWKNKFKKE REEIETMENL
NRVLLENVLP AHVAEHFLAR SLKNEELYHQ SYDCVCVMFA SIPDFKEFYT ESDVNKEGLE
CLRLLNEIIA DFDDLLSKPK FSGVEKIKTI GSTYMAATGL SAVPSQEHAQ EPERQYMHIG
TMVEFAYALV GKLDAINKHS FNDFKLRVGI NHGPVIAGVI GAQKPQYDIW GNTVNVASRM
DSTGVLDKIQ VTEETSLILQ TLGYTCTCRG IINVKGKGDL KTYFVNTEMS RSLSQSNLAS

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.
- 2. 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)

Target Details

Target:	ADCY2			
Alternative Name:	Adcy2 (ADCY2 Products)			
Background:	Adenylate cyclase type 2 (EC 4.6.1.1) (ATP pyrophosphate-lyase 2) (Adenylate cyclase type II) (Adenylyl cyclase 2),FUNCTION: Catalyzes the formation of the signaling molecule cAMP in response to G-protein signaling. Down-stream signaling cascades mediate changes in gene expression patterns and lead to increased IL6 production. Functions in signaling cascades downstream of the muscarinic acetylcholine receptors. {ECO:0000250 UniProtKB:P26769}.			
Molecular Weight:	123.3 kDa			
UniProt:	Q80TL1			
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.

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. 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)		