antibodies

Datasheet for ABIN3136345 ADCY10 Protein (AA 1-1614) (Strep Tag)



Overview

Image

Quantity:	1 mg
Target:	ADCY10
Protein Characteristics:	AA 1-1614
Origin:	Mouse
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This ADCY10 protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

Product Details

Sequence:	MSARRQELQD RAIVKIAAHL PDLIVYGDFS PERPSVKCFD GVLMFVDISG FTAMTEKFST
	AMYMDRGAEQ LVEILNYYIS AIVEKVLIFG GDILKFAGDA LLALWKVERK QLKNIITVVI
	KCSLEIHGLF EAKEAEEGLD IRVKIGLAAG HITMLVFGDE TRNYFLVIGQ AVDDVRLAQN
	MAQMNDVILS PNCWQLCDRS MIEIERIPDQ RAVKVSFLKP PPTFNFDEFF TKCMGFMDYY
	PSGDHKNFLR LACMLESDPE LELSLQKYVM EIILKQIDDK QLRGYLSELR PVTIVFVNLM
	FKEQDKVEVI GSAIQAACVH ITSVLKVFRG QINKVFMFDK GCSFLCVFGF PGEKAPDEIT
	HALESAVDIF DFCSQVHKIR TVSIGVASGI VFCGIVGHTV RHEYTVIGQK VNIAARMMMY
	YPGIVSCDSV TYDGSNLPAY FFKELPKKVM KGVADPGPVY QCLGLNEKVM FGMAYLICNR
	YEGYPLLGRV REIDYFMSTM KDFLMTNCSR VLMYEGLPGY GKSQVLMEIE YLASQHENHR
	AVAIALTKIS FHQNFYTIQI LMANVLGLDT CKHYKERQTN LQNRVKTLLD EKFHCLLNDI
	FHVQFPVSRE MSRMSKIRKQ KQLEALFMKI LAQTVREERI IFIIDEAQFV DGTSWAFIEK
	LIRSMPIFIV MSLAPFSEVP CAAANAIMKN RNTTYITLGT MQPQEIRDKV CVDLSVSSIP

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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 post-

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	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!
	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®):
	(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.
	1. In a first purification step, the protein is purified from the cleared cell lysate using StrepTag
	 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.
Purity:	 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
Purity: Endotoxin Level:	 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.

Target Details

Target:	ADCY10
Alternative Name:	Adcy10 (ADCY10 Products)
Background:	Adenylate cyclase type 10 (EC 4.6.1.1) (Germ cell soluble adenylyl cyclase) (sAC) (Testicular
	soluble adenylyl cyclase),FUNCTION: Catalyzes the formation of the signaling molecule cAMP.
	May function as sensor that mediates responses to changes in cellular bicarbonate and CO(2)
	levels (By similarity). Has a critical role in mammalian spermatogenesis by producing the cAMP
	which regulates cAMP-responsive nuclear factors indispensable for sperm maturation in the
	epididymis. Induces capacitation, the maturational process that sperm undergo prior to
	fertilization (PubMed:14976244, PubMed:16054031). Involved in ciliary beat regulation (By

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Target Details	
	similarity). {ECO:0000250 UniProtKB:Q96PN6, ECO:0000269 PubMed:14976244,
	ECO:0000269 PubMed:16054031}.
Molecular Weight:	186.4 kDa
UniProt:	Q8C0T9
Pathways:	cAMP Metabolic Process
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)

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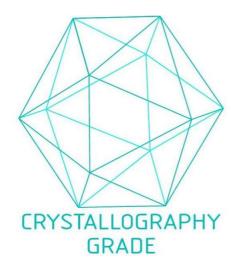


Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process

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