antibodies

## Datasheet for ABIN3132108 ADCY1 Protein (AA 794-1118) (His tag)





## Overview

Quantity:	1 mg
Target:	ADCY1
Protein Characteristics:	AA 794-1118
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ADCY1 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), Crystallization (Crys), ELISA

## Product Details

Sequence:	SCTLALHARQ VDVRLRLDYL WAAQAEEERD DMERVKLDNK RILFNLLPAH VAQHFLMSNP RNMDLYYQSY SQVGVMFASI PNFNDFYIEL DGNNMGVECL RLLNEIIADF DELMDKDFYK DLEKIKTIGS TYMAAVGLAP TAGTRAKKSI SSHLCTLADF AIDMFDVLDE INYQSYNDFV LRVGINVGPV VAGVIGARRP QYDIWGNTVN VASRMDSTGV QGRIQVTEEV HRLLKRCSYQ
	FVCRGKVSVK GKGEMLTYFL EGRTDGNSSH GRTFRLERRM CPYGRGGGQA RRPPLCPAAG PPVRPGLPPA PTSQYLSSTA AGKEA Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a special request, please contact us.
Characteristics:	<ul> <li>Made in Germany - from design to production - by highly experienced protein experts.</li> <li>Mouse Adcy1 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade.</li> <li>State-of-the-art algorithm used for plasmid design (Gene synthesis).</li> </ul>

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Product Details	
	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.
	In the unlikely event that the protein cannot be expressed or purified we do not charge anything
	(other companies might charge you for any performed steps in the expression process for
	custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression
	experiments or purification optimization).
	When you order this made-to-order protein you will only pay upon receival of the correctly
	folded protein. With no financial risk on your end you can rest assured that our experienced
	protein experts will do everything to make sure that you receive the protein you ordered.
	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.
	The concentration of the protein is calculated using its specific absorption coefficient. We use
	the Expasy's protparam tool to determine the absorption coefficient of each protein.
Purification:	Two step purification of proteins expressed in baculovirus infected SF9 insect cells:
	1. In a first purification step, the protein is purified from the cleared cell lysate using three
	different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. 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:	>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
·	
Sterility:	0.22 μm filtered
Endotoxin Level:	Protein is endotoxin free.
Grade:	Crystallography grade
Target Details	
Target:	ADCY1
Alternative Name:	Adcy1 (ADCY1 Products)
Background:	Catalyzes the formation of the signaling molecule cAMP in response to G-protein signaling.

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## Target Details

	Mediates responses to increased cellular Ca(2+)/calmodulin levels (PubMed:9662407,
	PubMed:7816821). May be involved in regulatory processes in the central nervous system
	(PubMed:9662407). May play a role in memory and learning (PubMed:7816821). 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 (PubMed:24048828).
	{ECO:0000269 PubMed:24048828, ECO:0000269 PubMed:7816821,
	EC0:000269 PubMed:9662407}.
Molecular Weight:	37.3 kDa Including tag.
UniProt:	088444
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 gurantee
	though.
Comment:	Protein has not been tested for activity yet. In cases in which it is highly likely that the
	recombinant protein with the default tag will be insoluble our protein lab may suggest a higher
	molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible
	options with you in detail to assure that you receive your protein of interest.
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Buffer:	100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufacturer.
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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