

Datasheet for ABIN3134390

ADCY9 Protein (AA 1-1353) (rho-1D4 tag)[Go to Product page](#)**1** Image

Overview

Quantity:	1 mg
Target:	ADCY9
Protein Characteristics:	AA 1-1353
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ADCY9 protein is labelled with rho-1D4 tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

Product Details

Sequence:	MASSPHQQLL HHHSTEVSCD SSGDSNSVRV KINPKQLSSN THPKHCKYSI SSSCSSSGDS GGLPRRVGGG GRLRRQKKLP QLFERASSRW WDPKFDSMNL EEACLERCFP QTQRRFRYAL FYVGFACLLW SIYFAVHMKS KVIVMVVPAL CFLVVCVGFF LFTFTKLYAR HYAWTSLALT LLVFALTAA QFQVWTPLSG RVDSSNHTLT ATPADTCLSQ VGSFSICIEV LLLLYTVMQL PLYLSLFLGV VYSVLFETFG YHFRNEDCYP SPGPGALHWE LLSRALLHVC IHAIGIHLFV MSQVRSRSTF LKVGQSIMHG KDLEVEKALK ERMIHSMVMPR IIADDLMKQG DEESENSVKR HATSSPKNRK KKSSIQKAPI AFRPFKMQOI EEVSILFADI VGFTKMSANK SAHALVGLLN DLFGRFDRLC EQTKCEKIST LGDCYYCVAG CPEPRADHAY CCIEMGLGMI KAIEQFCQEK KEMVNMVRGV HTGTVLCGIL GMRRFKFDVW SNDVNLANLM EQLGVAGKVH ISEATAKYLD DRYEMEDGRV IERLGQSVVA DQLKGLKTYL ISGQRAKESH CSCAEALLSG FEVIDDSRES SGPRGQGTAS PGSVSDLAQT VKTFDNLKTC PSCGITFAPK SEAGAEGGTV QNGCQDEPKT STKASGGPNS KTQNGLLSPP AEEKLTNSQT SLCEILQKEG RWAGVSLDQS ALLPLRFKNI
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REKTD AHFVD VIKEDSLMKD YFFKPPINQF SLNFLDQELE RSYRTSYQEE VIKNSPVKTF
ASATFSSLLD VFLSTTVFLI LSITCFLKYG ATATPPPPAA LAVFGADLLL EVLSLIVSIR
MVFFLEDVMT CTKWLLEWIA GWLPRHCIGA ILVSLPALAV YSHITSEFET NIHVTMFTGS
AVLVAVVHYC NFCQLSSWMR SSLATIVGAG LLLLLHISLC QDSSIVMSPL DSAQNFSAGR
NPCNSSVLQD GRRPASLIGK ELILTFLLLL LLVWFLNREF EVSYRLHYHG DVEADLHRTK
IQSMRDQADW LLRNIIPIYHV AEQLKVSQTY SKNHDSGGVI FASIVNFSEF YEENYEGGKE
CYRVLNELIG DFDELLSKPD YNSIEKIKTI GATYMAASGL NTAQCQEGGH PQEHLRILFE
FAKEMMRVVD DFNNNMLWFN FKLRVGFNHG PLTAGVIGTT KLLYDIWGDT VNIASRMDTT
GVECRIQVSE ESYRVLSKMG YDFDYRGTVN VKGKGQMKTY LYPKCTDNGV VPQHQLSISP
DIRVQVDGSI GRSPTDEIAN LVPSVQYSDK ASLGSDDSTQ AKEARLSSKR SWREPVKAE
RFPFGKAIEK DSCEDIGVEE ASELSKLNVS KSV

Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a special request, please contact us.

Characteristics:

- Made in Germany - from design to production - by highly experienced protein experts.
- Mouse Adcy9 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade.
- 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.

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 receipt 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:

Three step purification of membrane proteins expressed in baculovirus infected SF9 insect

Product Details

cells:

1. Membrane proteins are fractioned by ultracentrifugation and subsequently solubilized with different detergents (detergent screen). Samples are analyzed by Western blot.
2. The best performing detergent is used for solubilization and the proteins are purified via their rho1D4 tag via two rho1D4 antibody columns: one DTT resistant, the other one not. Eluate fractions are analyzed by Western blot.
3. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatograph. 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: ADCY9

Alternative Name: Adcy9 ([ADCY9 Products](#))

Background: Adenylyl cyclase that catalyzes the formation of the signaling molecule cAMP in response to activation of G protein-coupled receptors. Contributes to signaling cascades activated by CRH (corticotropin-releasing factor), corticosteroids and by beta-adrenergic receptors. {ECO:0000250|UniProtKB:O60503, ECO:0000269|PubMed:8662814}.

Molecular Weight: 152.1 kDa Including tag.

UniProt: [P51830](#)

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.

Comment: Protein has not been tested for activity yet. In cases in which it is highly likely that the

Application Details

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)

Images



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