

Datasheet for ABIN3134718

ADCY8 Protein (AA 1-1249) (rho-1D4 tag)**1** Image[Go to Product page](#)

Overview

Quantity:	1 mg
Target:	ADCY8
Protein Characteristics:	AA 1-1249
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ADCY8 protein is labelled with rho-1D4 tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

Product Details

Sequence:	MELSDVHCLS GSEELYTIQP TPPAGDDGSG SRPQRLWQT AVRHITEQRF IHGHRGGGGG GVSRKASNPA GSGPNHHAPQ LSSDSVLPLY SLGPGERAHN TGGTKVFPER SGSGSASGSG GGGDLGFLHL DCAPSNSDFF LGGYSYRGV IFPTLRNSFK SRDLERLYQR YFLGQRRKSE VVMNVLDVLT KLTLVLHLS LASAPMDPLK GILLGFFTGI EVVICALVVV RKDNTSHTYL QYSGVVTWVA MTTQILAAGL GYGLLDGIG YVLFTLFATY SMLPLPLTWA ILAGLGTSLL QVTLQVLIPR LAVFSINQVL AQVVLFCMN TAGIFISYLS DRAQRQAFLE TRRCVEARLR LETENQRQER LVLSVLPRFV VLEMINDMTN VEDEHLQHGF HRIYHRYEN VSILFADVKG FTNLSTTLA QELVRMLNEL FARFDRLAHE HHCLRIKILG DCYYCVSGLP EPRRDHAHCC VEMGLSMIKT IRFVRSRTKH DVDMRIGIHS GSVLCGVLGL RKWQFDVWSW DVDIANKLES GGIPGRIHIS KATLDCLNGD YNVEEGHGKE RNEFLRKHNI ETYLIKQPEE SLLCLPEDIV KESVSCSDRR NSGATFTEGS WSPELPFDNI VGKQNTLAAL TRNSINLLPN HLAQALHVQS GPPEINKRIE HTIDLRSGDK LRREHIKPF SLMFKDSSLEH KYSQMRDEVF KSNLVCAFIV
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LLFITAIQSL LPSSRLMPMT IQFSILIMLH SALVLITTAE DYKCLPLILR KTCCWINETY LARNVIIFAS
ILINFLGAVL NILWCDFDKS IPLKNLTFNS SAVFTDICSY PEYFVFTGVL AMVTCAVFLR
LNSVLKLAVL LIMIAIYALL TETIYAGLFL SYDNLNHSGE DFLGTKEASL LLMAMFLLAV
FYHGQQLEYT ARLDFLWRVQ AKEEINEMKE LREHNENMLR NILPSHVARH FLEKDRDNEE
LYSQSYDAVG VMFASIPGFA DFYSQTEMNN QGVECLRLLN EIIADFDELL GEDRFQDIEK
IKTIGSTYMA VSGLSPEKQQ CEDKWGHLCA LADFSLALTE SIQEINKHSF NNFELRIGIS
HGSVVAGVIG AKKPQYDIWG KTVNLASRMD STGVSGRIQV PEETYLILKD QGFAFDYRGE
IYVKGISEQE GKIPTYFLLG RVQPNPFILP PRRLPGQYSL AAVVLGLVQS LNRQRQKQLL
NENSNSGIK SHYNRRLLT PSGPEPGAQA EGTDKSDLP

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 Adcy8 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 cells:

1. Membrane proteins are fractionated by ultracentrifugation and subsequently solubilized with

Product Details

- 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:	ADCY8
Alternative Name:	Adcy8 (ADCY8 Products)
Background:	This is a membrane-bound, calcium-stimulable adenylyl cyclase. May be involved in learning, in memory and in drug dependence (By similarity). {ECO:0000250}.
Molecular Weight:	141.3 kDa Including tag.
UniProt:	P97490
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 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