

Datasheet for ABIN7551926  
**ADCY3 Protein (AA 1-1144) (His tag)**



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## Overview

Quantity:	1 mg
Target:	ADCY3
Protein Characteristics:	AA 1-1144
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ADCY3 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

## Product Details

Purpose:	Custom-made recombinat ADCY3 Protein expressed in mammalian cells.
Sequence:	<p>MPRNQGFSEP EYSAEYSAEY SVSLPSDPDR GVGRTHEISV RNSGSCLCLP RFMRLTFVPE SLENLYQTYF KRQRHETLLV LVVFAALFDC YVVVMCAVVF SSDKLASLAV AGIGLVLDII LFVLCKKGLL PDRVTRRVLV YVLWLLITAQ IFSYLGLNFA RAHAASDTVQ WQVFFVFSFF ITLPLSLSPI VIISVVSCVV HTLVLGVTVA QQQQEELKGM QLLREILANV FLYLCAIavg IMSYYMADRK HRKAFLEARQ SLEVKMNLEE QSQQENLML SILPKHVADE MLKDMKKDES QKDQQQFNTM YMYRHENVSI LFADIVGFTQ LSSACSAQEL VKLLNELFAR FDKLAAKYHQ LRIKILGDCY YCICGLPDYR EDHAVCSILM GLAMVEAISY VREKTKTGVD MRVGVHTGTV LGGVLGQKRW QYDVWSTDVT VANKMEAGGI PGRVHISQST MDCLKGEFDV EPGDGGSRCD YLEEKGIETY LIASKPEVK KTATQNGLNG SALPNGAPAS SKSSSPALIE TKEPNGSAHS SGSTSEKPEE QDAQADNPSF PNP RRRLRLQ DLADRVVDAS EDEHELNQLL NEALLERESA QVVKKRNTFL LSMRFMDPEM ETRYSVEKEK QSGAAFSCSC VLLCTALVE ILIDPWLMTN</p>

## Product Details

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YVTFMVGEIL LLILTICSLA AIFPRAFPKK LVAFSTWIDR TRWARNTWAM LAIFILVMAN  
VVDMLSCLQY YTGPSNATAG METEGSCLN PKYYNYVAVL SLIATIMLVQ VSHMVKLTLM  
LLVAGAVATI NLYAWRPVFD EYDHKRFREH DLPMVALEQM QGFNPGLNGT DRLPLVPSKY  
SMTVMVFLMM LSFYYFSRHV EKLARTLFLW KIEVHDQKER VYEMRRWNEA LVTNMLPEHV  
ARHFLGSKKR DEELYSQTYD EIGVMFASLP NFADFYTEES INNGGIECLR FLNEIISDFD  
SLLDNPKFRV ITKIKTIGST YMAASGVTPD VNTNGFASN KEDKSERERW QHLADLADFA  
LAMKDTLTNI NNQSFNNFML RIGMNKGGVL AGVIGARKPH YDIWGNTVNV ASRMESTGVM  
GNIQVVEETQ VILREYGFRF VRRGPIFVKG KGELLTFFLK GRDKLATFPN GPSVTLPHQV VDNS

**Sequence without tag. The proposed Purification-Tag is based on experiences 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.**

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### Characteristics:

#### Key Benefits:

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- 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 try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

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.

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### Purity:

> 90 % as determined by Bis-Tris Page, Western Blot

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### Grade:

custom-made

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## Target Details

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### Target:

ADCY3

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### Alternative Name:

ADCY3 ([ADCY3 Products](#))

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### Background:

Adenylate cyclase type 3 (EC 4.6.1.1) (ATP pyrophosphate-lyase 3) (Adenylate cyclase type III) (AC-III) (Adenylate cyclase, olfactive type) (Adenylyl cyclase 3) (AC3),FUNCTION: Catalyzes the

## Target Details

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formation of the signaling molecule cAMP in response to G-protein signaling. Participates in signaling cascades triggered by odorant receptors via its function in cAMP biosynthesis. Required for the perception of odorants. Required for normal sperm motility and normal male fertility. Plays a role in regulating insulin levels and body fat accumulation in response to a high fat diet. {ECO:0000250|UniProtKB:Q8VHH7}.

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Molecular Weight: 129.0 kDa

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UniProt: [O60266](#)

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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

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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.

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Restrictions: For Research Use only

## Handling

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Format: Liquid

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Buffer: The buffer composition is at the discretion of the manufacturer.

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Handling Advice: Avoid repeated freeze-thaw cycles.

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Storage: -80 °C

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Storage Comment: Store at -80°C.

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Expiry Date: 12 months