

Datasheet for ABIN7564236
ADCY2 Protein (AA 1-1090) (His tag)



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Overview

Quantity:	1 mg
Target:	ADCY2
Protein Characteristics:	AA 1-1090
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ADCY2 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat Adcy2 Protein expressed in mammalien cells.
Sequence:	<p>MRRRRRYLRDR AEAAAAAAAAAG GGEGLQRSRD WLYESYYCMS QQHPLIVFLL LIVMGACLAL LAVFFALGLE VEDHVAFLIT VPTALAIFFA IFILVCIESV FKKLLRVFSL VIWICLVAMG YLFMCFGGTV SAWDQVSFFL FIFVVYTML PFNMRDAIIA SVLTSSSHTI VLSVYLSATP GAKEHLFWQI LANVIIFICG NLAGAYHKHL MELALQQTYR DTCNCIKSRI KLEFEKRQQE RLLLSLLPAH IAMEMKAEII QRLQGPKAGQ MENTNNFHNL YVKRHTNVSII LYADIVGFTR LASDCSPGEL VHMLNELFGK FDQIAKENEC MRIKILGDCY YCVSGLPISL PNHAKNCVKM GLDMCEAIKK VRDATGVDIN MRVGVHSGNV LCGVIGLQKW QYDVWSDHVT LANHMEAGGV PGRVHISSVT LEHLNGAYKV EEGDGEIRDP YLKQHLVKTY FVINPKGERR SPQHLFRPRH TLDGAKMRAS VRMTRYLESW GAAKPFALH HRDSMTTENG KISTTDVPMG QHNFQNRTLR TKSQKKRFEE ELNERMIQAI DGINAQKQWL KSEDIQRISL FFYKNKIEKE YRATALPAFK YYVTCACLIF LCIFIVQILV LPKTSILGFS FGA AFLSLIF ILFVCFAGQL LQCSKKASAS LLWLLKSSGI</p>

Product Details

IANRPWPRIS LTIVTTAIL TMAVFNMFLL SNSEETTLPT ANASNANVSV PDNQTAILHA
RNLFFLPYFI YSCILGLISC SVFLRVNYEL KMLIMMVALV GYNIILLHTH AHVLDAYSQV
LFQRPGIWKD LKTMGSVSLS IFFITLLVLG RQSEYYCRLD FLWKNKFKKE REEIETMENL
NRVLLENVLP AHVAEHFLAR SLKNEELYHQ SYDCVCVMFA SIPDFKEFYT ESDVNKEGLE
CLRLLNEIIA DFDDLLSKPK FSGVEKIKTI GSTYMAATGL SAVPSQEHAQ EPERQYMHIG
TMVEFAYALV GKLDANKHS FNDFKLRVGI NHGPVIAGVI GAQKPQYDIW GNTVNVASRM
DSTGVLDKIQ VTEETSLILQ TLGYTCTCRG IINVKGKGD LKTYFVNTEMS RSLSQSNLAS **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.**

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.

Purity:

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

Grade:

custom-made

Target Details

Target:

ADCY2

Alternative Name:

Adcy2 ([ADCY2 Products](#))

Background:

Adenylate cyclase type 2 (EC 4.6.1.1) (ATP pyrophosphate-lyase 2) (Adenylate cyclase type II) (Adenylyl cyclase 2),FUNCTION: Catalyzes the formation of the signaling molecule cAMP in response to G-protein signaling. Down-stream signaling cascades mediate changes in gene

Target Details

expression patterns and lead to increased IL6 production. Functions in signaling cascades downstream of the muscarinic acetylcholine receptors. {ECO:0000250|UniProtKB:P26769}.

Molecular Weight: 123.3 kDa

UniProt: [Q80TL1](#)

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.

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: The buffer composition 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: 12 months