

Datasheet for ABIN7562602
ADCY1 Protein (AA 1-1118) (His tag)



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Overview

Quantity:	1 mg
Target:	ADCY1
Protein Characteristics:	AA 1-1118
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ADCY1 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat Adcy1 Protein expressed in mammalien cells.
Sequence:	MAGAPRGQGG GGGAGEPGGA ERAAGPGGRR GFRACGEEFA CPELEALFRG YTLRLEQAAT LKALAVLSLL AGALALAE LL GAPGPAPGLA KGSHPVHCIL FLALFVVTNV RSLQVSQ LQQ VGQLALFFSL TFALLCCPFA LGGPARSSAG GAMGSTVAEQ GVWQ LLLVTF VSYALLPVRS LLAIGFGLVV AASHLLVTAA LVPAKRPR LW RTLGANALLF FGVNMYGVFV RILTERSQRK AFLQARNCIE DRLRLEDENE KQERLLMSLL PRNVAMEMKE DFLKPPERIF HKIYIQRHDN VSILFADIVG FTGLASQCTA QELVKLLNEL FGKFD ELATE NHCRRIKILG DCYYCVSGLT QPKTDHAHCC VEMGLDMIDT ITSVAEATEV DLNMRVGLHT GRVLCGVLGL RKWQYDVWSN DVTLANVMEA AGLPGKVHIT K TTLACLNGD YEVEPGHGHE RNTFLRTHNI E TFFIVPSHR RKIFPGLILS DIKPAKRMKF KTVCYLLVQL MHCRCMFKAE IPFSNVMTCE DDDKRRALRT ASEKLRNRSS FSTNVVY TTP GTRVNR YISR LLEARQTELE MADLNFFTLK YKHVEREQKY HQLQDEYFTS AVVLALILAA LFGLIYLLVI PQSVAV LLLL VFSICFLVAC TLYLHITRVQ CFPGCLTIQI

Product Details

RTALCVFIVV LIYSVAQGCV VGCLPWAUSS QSNSSLVFLA AGGRRTVLPALPCESAHHAL
LCCLVGTLPAL AIFLRVSSLP KMILLSGLTT SYILVLELSG YTKVGGGALS GRSYEPIMAI
LLFSCTLALH ARQVDVRLRL DYLVAAQAEE ERDDMERVKL DNKRILFNLL PAHVAQHFLM
SNPRNMDLYY QSYSQVGVMF ASIPNFNDFY IELDGNMGMV ECLRLLNEII ADFDELMDKD
FYKDLEKIKT IGSTYMAAVG LAPTAGTRAK KSISSHLCTL ADFAIMFDV LDEINYQSYN
DFVLRVGINV GPVVAGVIGA RRPQYDIWGN TVNVASRMDS TGVQGRIQVT EEVHRLKRC
SYQFVCRGKV SVKKGEMLT YFLEGRTDGN SSHGRTFRLE RRMCPYGRGG GQARRPPLCP
AAGPPVRPGL PPAPTSQYLS STAAGKEA **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:

ADCY1

Alternative Name:

Adcy1 ([ADCY1 Products](#))

Background:

Adenylate cyclase type 1 (EC 4.6.1.1) (ATP pyrophosphate-lyase 1) (Adenylate cyclase type I) (Adenylyl cyclase 1) (Ca²⁺)/calmodulin-activated adenylyl cyclase),FUNCTION: Catalyzes the

Target Details

formation of the signaling molecule cAMP in response to G-protein signaling. 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, ECO:0000269|PubMed:9662407}.

Molecular Weight: 123.4 kDa

UniProt: [O88444](#)

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