

Datasheet for ABIN7552006
ADCY5 Protein (AA 1-1261) (His tag)



[Go to Product page](#)

Overview

Quantity:	1 mg
Target:	ADCY5
Protein Characteristics:	AA 1-1261
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ADCY5 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat ADCY5 Protein expressed in mammalian cells.
Sequence:	<p>MSGSKSVSPG GYAAQKTAAP APRGGPEHRS AWGEADSRAN GYPHAPGGSA RGSTKKPGGA VTPQQQRLA SRWRSDDDDD PPLSGDDPLA GGFDFSFRSK SAWQERGGDD CGRGSRRQRR GAASGGSTRA PPAGGGGGSA AAAASAGGTE VRPRSVEVGL EERRGKGRAA DELEAGAVEG GEGSGDGGSS ADSGSGAGPG AVLSLGACCL ALLQIFRSKK FPSDKLERLY QRYFFRLNQS SLTMLMAVLV LVCLVMLAFH AARPPLQLPY LAVLAAAVGV ILIMAVLCNR AAFHQDHMGL ACYALIAVVL AVQVVGLLLP QPRSASEGIW WTVFFIYTIY TLLPVRMRAA VLSGVLLSAL HLAIALRTNA QDQFLKQLV SNVLIFSCTN IVGVCTHYPA EVSQRQAFQE TRECQARLH SQRENQQER LLLSVLPRHV AMEMKADINA KQEDMMFHKI YIQKHDNVI LFADIEGFTS LASQCTAQL VMTLNELFAR FDKLAAENHC LRIKILGDCY YCVSGLPEAR ADHAHCCVEM GMDMIEAISL VREVTGVNVN MRVGIHSGRV HCGVLGLRKY QFDVWSNDVT LANHMEAGGK AGRIHITKAT LNYLNGDYEV EPGCGGERNA YLKEHSIETF LILRCTQKRK EEKAMIAKMN</p>

RQRTNSIGHN PPHWGAERPF YNHLGGNQVS KEMKRMGFED PKDKNAQESA NPEDEVDEFL
GRAIDARSID RLRSEHVRKF LLTFREPDLE KKYSKQVDDR FGAYVACASL VFLFICFVQI
TIVPHSIFML SFYLTCSLLL TLVVFVSVIY SCVKLFPSPL QTLSRKIVRS KMNSTLVGVF
TITLVFLAAF VNMFTCNSRD LLGCLAQEHN ISASQVNACH VAESAVNYSL GDEQGFCSGP
WPNCNFPEYF TYSVLLSLLA CSVFLQISCI GKLVLMIAIE LIYVLIVEVP GVTLFDNADL
LVTANAIDFF NNGTSQCPEH ATKVALKVVT PIIISVFVLA LYLHAQQVES TARLDFLWKL
QATEEKEEME ELQAYNRRLH HNILPKDVAA HFLARERRND ELYYQSCECV AVMFASIANF
SEFYVELEAN NEGVECLRLL NEIADFDEI ISEDRFRQLE KIKTIGSTYM AASGLNDSTY
DKVGKTHIKA LADFAMKLMQ QMKYINEHSF NNFQMKIGLN IGPVVAGVIG ARKPQYDIWG
NTVNVASRMD STGVPDRIQV TTDYMQVLA NTYQLECRGV VKVKGKGEMM TYFLNGGPPL S

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:

ADCY5

Alternative Name:

ADCY5 ([ADCY5 Products](#))

Target Details

Background: Adenylate cyclase type 5 (EC 4.6.1.1) (ATP pyrophosphate-lyase 5) (Adenylate cyclase type V) (Adenylyl cyclase 5) (AC5),FUNCTION: Catalyzes the formation of the signaling molecule cAMP in response to G-protein signaling (PubMed:15385642, PubMed:26206488, PubMed:24700542). Mediates signaling downstream of ADRB1 (PubMed:24700542). Regulates the increase of free cytosolic Ca(2+) in response to increased blood glucose levels and contributes to the regulation of Ca(2+)-dependent insulin secretion (PubMed:24740569). {ECO:0000269|PubMed:15385642, ECO:0000269|PubMed:24700542, ECO:0000269|PubMed:24740569, ECO:0000269|PubMed:26206488}.

Molecular Weight: 138.9 kDa

UniProt: [O95622](#)

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