

Datasheet for ABIN7552005
ADCY2 Protein (AA 1-1091) (His tag)



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Overview

Quantity:	1 mg
Target:	ADCY2
Protein Characteristics:	AA 1-1091
Origin:	Human
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 mammalian cells.
Sequence:	MWQEAMRRRR YLRDRSEEA GGGDGLPRSR DWLYESYYCM SQQHPLIVFL LLIVMGSCLA LLAVFFALGL EVEDHVAFLI TVPTALAIFF AIFILVCIES VFKKLLRLFS LVIWICLVAM GYLFCMCFGGT VSPWDQVSFF LFIIFVYTM LPFNMRDAII ASVLTSSSHT IVLSVCLSAT PGGKEHLVWQ ILANVIIFIC GNLAGAYHKKH LMELALQQTY QDTCNCIKSR IKLEFEKRQQ ERLLSLLPA HIAMEMKAEI IQRLQGPKAG QMENTNNFHN LYVKRHTNVS ILYADIVGFT RLASDCSPGE LVHMLNELFG KFDQIAKENE CMRIKILGDC YYCVSGLPIS LPNHAKNCVK MGLDMCEAIK KVRDATGVDI NMRVGVHSGN VLCGVIGLQK WQYDVWSDHV TLANHMEAGG VPGRVHISSV TLEHLNGAYK VEEGDGDIRD PYLKQHLVKT YFVINPKGER RSPQHFRPR HTLDGAKMRA SVRMTRYLES WGAAPFAHL HHRDSMTTEN GKISTTDVPM GQHNFNQRTL RTKSQKKRFE EELNERMIQA IDGINAQKQW LKSEDIQRIS LLYFNKVLEK EYRATALPAF KYVYTCACLI FFCIFIVQIL VLPKTSVLGI SFGAAFLLLA FILFVCFAGQ LLQCSKKASP LLMWLLKSSG IIANRPWPRI SLTIITTAII

Product Details

LMMAVFNMFF LSDSEETIPP TANTTNTSFS ASNNQVAILR AQLNFFLPYF IYSCILGLIS
CSVFLRVNYE LKMLIMMVAL VGYNTILLHT HAHVLDGYSQ VLFERPGIWK DLKTMGSVSL
SIFFITLLVL GRQNEYCYRL DFLWKNKFKK EREEIETMEN LNRVLEENVL PAHVAEHFLA
RSLKNEELYH QSYDCVCVMF ASIPDFKEYF TESDVNKEGL ECLRLLENEI ADFDDLKSKP
KFSGVEKIKT IGSTYMAATG LSAVPSQEHS QEPERQYMHI GTMVEFAFAL VGKLDANKH
SFNDFKLRVG INHGPVIAGV IGAQKPQYDI WGNTVNVASR MDSTGVLDKI QVTEETSLVL
QTLGYTCTCR GIINVKGKGD LKTYFVNTEM SRSLSQSNVA 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:

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 (PubMed:15385642). Down-stream signaling cascades mediate

Target Details

changes in gene expression patterns and lead to increased IL6 production. Functions in signaling cascades downstream of the muscarinic acetylcholine receptors (By similarity). {ECO:0000250|UniProtKB:P26769, ECO:0000269|PubMed:15385642}.

Molecular Weight: 123.6 kDa

UniProt: [Q08462](#)

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