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Datasheet for ABIN7564761

ADCY3 Protein (AA 1-1145) (His tag)

Overview

Quantity:	1 mg
Target:	ADCY3
Protein Characteristics:	AA 1-1145
Origin:	Mouse
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 mammalien cells.
Sequence:	<p>MPRNQGFSDP EYSAEYSAEY SVSLPSDPDR GVGRTHEISV RNSGSCLCLP RFMRLTFVPE SLENLYQTYF KRQRHETLLV LVVFAALFDC YVVVMCAVVF SSDKLAPLMV AGFGLVLDII LFVLCKKGLL PDRVSRKVVP YLLWLLISAQ IFSYLGLNFS RAHAASDTVG WQAFFVFSFF ITLPLSLSPI VIISVVSCVW HTLVLGVTVA QQQQDELEGM QLLREILANV FLYLCAIIVG IMSYYMADRK HRKAFLEARQ SLEVKMNLEE QSQQENLML SILPKHVADE MLKDMKKDES QKDQQQFNTM YMYRHENVSI LFADIVGFTQ LSSACSAQEL VKLLNELFAR FDKLAAKYHQ LRIKILGDCY YCICGLPDYR EDHAVCSILM GLAMVEAISY VREKTKTGVD MRVGVHTGTV LGGVLGQKRW QYDVWSTDVT VANKMEAGGI PGRVHISQST MDCLKGEFDV EPGDGGSRCD YLDEKGIETY LIIASKPEVK KTAQNGLNGS AVPNGAPASS KPSSPALIET KEPNGSAHAS GSTSEEAEQ EAQADNPSFP NPRRRRLRLQD LADRVDASE DEHELNQLLN EALLERESAQ VVKKRNTFLL TMRFMDPEME TRYSVEKEKQ SGAAFSCSCV VLFCTAMVEI LIDPWLMTNY</p>

Product Details

VTFVVGVEVLL LILTICSMMAA IFPRSFPKKL VAFSSWIDRT RWARNTWAML AIFILVMANV
VDMLSCLQYY MGPYNMTAGM ELDGGCMENP KYINYVAVLS LIATIMLVQV SHMVKLTML
LVTGAVTALN LYAWCPVFDE YDHKRFQEKD SPMVALEKMQ VLATPGLNGT DSRLPLVPSK
YSMTVMFMFVM MLSFYFYSRH VEKLARTLFL WKIEVHDQKE RVYEMRRWNE ALVTNMLPEH
VARHFLGSKK RDEELYSQSY DEIGVMFASL PNFADFYTEE SINNGGIECL RFLNEISDF
DSLLDNPKFR VITKIKTIGS TYMAASGVTP DVNTNGFTSS SKEEKSDKER WQHLADLADF
ALAMKDTLTN INNQSFNNFM LRIGMKNKGGV LAGVIGARKP HYDIWGNVTN VASRMESTGV
MGNIQVVEET QVILREYGFR FVRRGPIFVK GKGELLTFFL KGRDRPAAFP NGSSVTLPHQ VVDNP

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:

ADCY3

Alternative Name:

Adcy3 ([ADCY3 Products](#))

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

formation of the signaling molecule cAMP in response to G-protein signaling (PubMed:9768837, PubMed:11055432, PubMed:25329148). Participates in signaling cascades triggered by odorant receptors via its function in cAMP biosynthesis (PubMed:9768837, PubMed:11055432). Required for the perception of odorants (PubMed:11055432). Required for normal sperm motility and normal male fertility (PubMed:15705663). Plays a role in regulating insulin levels and body fat accumulation in response to a high fat diet (PubMed:25329148). {ECO:0000269|PubMed:11055432, ECO:0000269|PubMed:15705663, ECO:0000269|PubMed:9768837}.

Molecular Weight: 129.1 kDa

UniProt: [Q8VHH7](#)

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