Datasheet for ABIN3136345

ADCY10 Protein (AA 1-1614) (His tag)

1 Image

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Overview

Quantity:	1 mg
Target:	ADCY10
Protein Characteristics:	AA 1-1614
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ADCY10 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

Product Details

Sequence:	MSARRQELQD RAIVKIAAHL PDLIVYGDFS PERPSVKCFD GVLMFVDISG FTAMTEKFST AMYMDRGAEQ LVEILNYYIS AIVEKVLIFG GDILKFAGDA LLALWKVERK QLKNIITVVI KCSLEIHGLF EAKEAEEGLD IRVKIGLAAG HITMLVFGDE TRNYFLVIGQ AVDDVRLAQN MAQMNDVILS PNCWQLCDRS MIEIERIPDQ RAVKVSFLKP PPTFNFDEFF TKCMGFMDYY PSGDHKNFLR LACMLESDPE LELSLQKYVM EIILKQIDDK QLRGYLSELR PVTIVFVNLM FKEQDKVEVI GSAIQAACVH ITSVLKVFRG QINKVFMFDK GCSFLCVFGF PGEKAPDEIT HALESAVDIF DFCSQVHKIR TVSIGVASGI VFCGIVGHTV RHEYTVIGQK VNIAARMMMY YPGIVSCDSV TYDGSNLPAY FFKELPKKVM KGVADPGPVY QCLGLNEKVM FGMAYLICNR YEGYPLLGRV REIDYFMSTM KDFLMTNCSR VLMYEGLPGY GKSQVLMEIE YLASQHENHR AVAIALTKIS FHQNFYTIQI LMANVLGLDT CKHYKERQTN LQNRVKTLLD EKFHCLLNDI FHVQFPVSRE MSRMSKIRKQ KQLEALFMKI LAQTVREERI IFIIDEAQFV DGTSWAFIEK LIRSMPIFIV MSLAPFSEVP CAAANAIMKN RNTTYITLGT MQPQEIRDKV CVDLSVSSIP

RELDSYLVEG SCGIPYYCEE LLKNLDHHRV LLFQQAETEQ KTNVTWNNMF KHSVRPTDDM QLFTSISEGQ KEVCYLVSGV RLNNLSPPAS LKEISLVQLD SMSLSHQMLV RCAAIIGLTF TTELLFEILP CWNMKMMIKA LATLVESNVF NCFRSSKDLQ LALKQNVPTF EVHYRSLALK LKEGLTYGEE EELREMEGEV VECRILRFCR PIMQKTAYEL WLKDQKKVLH LKCARFLEES AHRCNHCRNV DFIPYHHFIV DIRLNTLDMD TVKRMVTSQG FKIDEEEAIF SKSELPRKYK FPENLSITEI REKILHFFDN VILKMKSSPN DIIPLESCQC KELLQIVILP LAQHFVALEE NNKALYYFLE LASAYLILGD NYNAYMYLGE GERLLKSLTN EDSWSQTFEY ATFYSLKAEV CFNMGQMVLA KKMLRKALKL LNRMFPCNLL TLTFQMHVEK NRLSHFMNQH TQEGSVPGKK LAQLYLQASC FSLLWRIYSL NFFFHYKYYG HLAAMMEMNT SLETQNDFQI IKAYLDFSLY HHLAGYQGVW FKYEILVMEQ LLNLPLKGEA IEIMAYTADT LGHIKFLMGH LDLAIELGSR AHRMWSLLRN PNKYQMVLCR LSKPLFLKSR YKHLVQVLGW LWDLSVTEED IFSKAFFYFV CLDIMLYSGF IYRTFEECLE FIHHNEDNRI LKFQSGLLLG LYSCIAVWYA RLQEWDNFNK FSDRAKHLVT RRTPTVLYYE GISRYMEGQV LHLQKQIEEQ AENAQDSGVE ILKALETLVA QNTTGPVFYP RLYHLMAYVC ILMGDGHSCD FFLNTALELS ETHGNLLEKC WLSMSKEWWY SASELTGDQW LQTVLSLPSW DKIVSGKGGQ RKRSWSWFCP PNFSMVSWSQ PQCA

Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a special request, please contact us.

Characteristics:

- Made in Germany - from design to production - by highly experienced protein experts.
- Mouse Adcy10 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade.
- 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 will ensure that you receive a correctly folded protein.

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.

In the unlikely event that the protein cannot be expressed or purified we do not charge anything (other companies might charge you for any performed steps in the expression process for custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression experiments or purification optimization).

When you order this made-to-order protein you will only pay upon receival of the correctly folded protein. With no financial risk on your end you can rest assured that our experienced protein experts will do everything to make sure that you receive the protein you ordered.

The concentration of our recombinant proteins is measured using the absorbance at 280nm. The protein's absorbance will be measured in several dilutions and is measured against its

Product Details

	specific reference buffer. The concentration of the protein is calculated using its specific absorption coefficient. We use the Expasy's protparam tool to determine the absorption coefficient of each protein.
Purification:	Two step purification of proteins expressed in baculovirus infected SF9 insect cells: 1. In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate fractions are analyzed by SDS-PAGE. 2. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.
Purity:	>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Sterility:	0.22 µm filtered
Endotoxin Level:	Protein is endotoxin free.
Grade:	Crystallography grade

Target Details

Target:	ADCY10
Alternative Name:	Adcy10 (ADCY10 Products)
Background:	Catalyzes the formation of the signaling molecule cAMP. May function as sensor that mediates responses to changes in cellular bicarbonate and CO(2) levels (By similarity). Has a critical role in mammalian spermatogenesis by producing the cAMP which regulates cAMP-responsive nuclear factors indispensable for sperm maturation in the epididymis. Induces capacitation, the maturational process that sperm undergo prior to fertilization (PubMed:14976244, PubMed:16054031). Involved in ciliary beat regulation (By similarity). {ECO:0000250|UniProtKB:Q96PN6, ECO:0000269|PubMed:14976244, ECO:0000269|PubMed:16054031}.
Molecular Weight:	187.4 kDa Including tag.
UniProt:	Q8C0T9
Pathways:	cAMP Metabolic Process

Application Details

Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies

Application Details

	as well. As the protein has not been tested for functional studies yet we cannot offer a gurantee though.
Comment:	Protein has not been tested for activity yet. In cases in which it is highly likely that the recombinant protein with the default tag will be insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible options with you in detail to assure that you receive your protein of interest.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value 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:	Unlimited (if stored properly)

Images

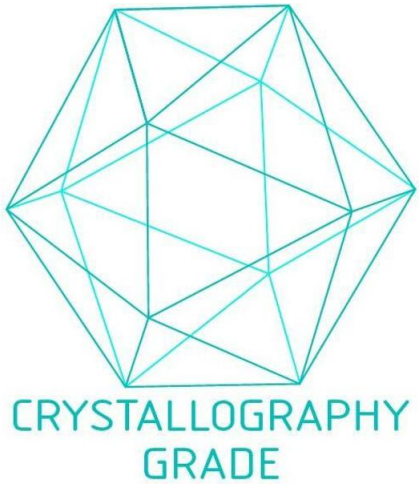

Image 1. „Crystallography Grade“ protein due to multi-step, protein-specific purification process