

Datasheet for ABIN7563539
ADCY5 Protein (AA 1-1262) (His tag)



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Overview

Quantity:	1 mg
Target:	ADCY5
Protein Characteristics:	AA 1-1262
Origin:	Mouse
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 mammalien cells.
Sequence:	<p>MSGSKSVSPG GYAAQTAASP APRGGPEHRA AWGEADSRAN GYPHAPGGST RGSTKRSGGA VTPQQQRLA SRWRGGDDDE DPPLSGDDPL AGGFGFSFRS KSAWQERGGD DGGRGSRQR RGAAGGGSTR APPAGGSGSS AAAAAAAGGT EVRPRSVELG LEERRGKGRA AEELEPGTGI VEDGDGSEDG GSSVASGSGT GAVLSLGACC LALLQIFRSK KFPSDKLERL YQRYFFRLNQ SSLTMLMAVL VLVCLVMLAF HAARPPLQIA YLAVLAAAVG VILIMAVLCN RAAFHQDHMG LACYALIAVV LAVQVVGILL PQPRSASEGI WWTVFFIYTI YTLLPVRMRA AVLSGVLLSA LHLAISLHTN SQDQFLLKQL VSNVLIFSCT NIVGVCTHYP AEVSQRQAFQ ETRECIQARL HSQRENQQQE RLLLSVLPRH VAMEMKADIN AKQEDMMFHK IYIQKHDNVS ILFADIEGFT SLASQCTAQE LVMTLNELFA RFDKLAENH CLRIKILGDC YYCVSGLPEA RADHAHCCVE MGMDMIEAIS LVREVTGVNV NMRVGIHSGR VHCGVLGLRK WQFDVWSNDV TLANHMEAGG KAGRIHITKA TLNYLNGDYE VEPGCGGDRN AYLKEHSIET FLILSCTQKR KEEKAMIAKM</p>

NRQRTNSIGH NPPHWGAERP FYNHLGGNQV SKEMKRMGFE DPKDKNAQES ANPEDEVDEF
LGRAIDARSI DRLRSEHVRK FLLTFREPD L EKKYSKQVDD RFGAYVACAS LVFLFICFVQ
ITIVPHSLFM LSFYLSFCFL LALVVFVSVI YACVKLFPTP LQTLRSKIVR SKKNSTLVGV
FTITLVFLSA FVNMFMCNSK NLVGCLAEH NITVNQVNAC HVMESAFNYS LGDEQGFCS
PQPNCNFPEY FTYSVLLSLL ACSVFLQISC IGKLVMLAI EFIYVLIVEV PGTFLFDNAD
LLVTANAIDF SNNGTSQCPE HATKVALKV V TPIIISVFLV ALYLHAQQVE STARLDFLWK
LQATEEKEEM EELQAYNRRL LHNILPKDVA AHFLARERRN DELYYQSECE VAVMFASIAN
FSEFYVELEA NNEGVECLRL LNEIADFDE IISED RFRQL EKIKTIGSTY MAASGLNDST
YDKAGKTHIK AIADFAMKLM DQMKYINEHS FNNFQMKIGL NIGPVVAGVI GARKPQYDIW
GNTVNVASRM DSTGVPDRIQ VTTDMYQVLA ANTYQLECRG VVKVKGK GEM MTYFLNGGPP LS

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),FUNCTION: Catalyzes the formation of the signaling molecule cAMP in response to G-protein signaling. Mediates signaling downstream of ADRB1. 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. {ECO:0000250 UniProtKB:O95622}.
Molecular Weight:	139.1 kDa
UniProt:	P84309
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