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ADCY5 Protein (AA 1-1262) (rho-1D4 tag)



Image



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Overview

Quantity:	1 mg
Target:	ADCY5
Protein Characteristics:	AA 1-1262
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ADCY5 protein is labelled with rho-1D4 tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

Product Details

Sequence:

MSGSKSVSPP GYAAQTAASP APRGGPEHRA AWGEADSRAN GYPHAPGGST RGSTKRSGGA VTPQQQQRLA SRWRGGDDDE DPPLSGDDPL AGGFGFSFRS KSAWQERGGD DGGRGSRRQR RGAAGGGSTR APPAGGSGSS AAAAAAAAGGT EVRPRSVELG LEERRGKGRA AEELEPGTGI VEDGDGSEDG GSSVASGSGT GAVLSLGACC LALLQIFRSK KFPSDKLERL YQRYFFRLNQ SSLTMLMAVL VLVCLVMLAF HAARPPLQIA YLAVLAAAVG VILIMAVLCN RAAFHQDHMG LACYALIAVV LAVQVVGLLL PQPRSASEGI WWTVFFIYTI YTLLPVRMRA AVLSGVLLSA LHLAISLHTN SQDQFLLKQL VSNVLIFSCT NIVGVCTHYP AEVSQRQAFQ ETRECIQARL HSQRENQQQE RLLLSVLPRH VAMEMKADIN AKQEDMMFHK IYIQKHDNVS ILFADIEGFT SLASQCTAQE LVMTLNELFA RFDKLAAENH CLRIKILGDC YYCVSGLPEA RADHAHCCVE MGMDMIEAIS LVREVTGVNV NMRVGIHSGR VHCGVLGLRK WQFDVWSNDV TLANHMEAGG KAGRIHITKA TLNYLNGDYE VEPGCGGDRN AYLKEHSIET FLILSCTQKR KEEKAMIAKM NRQRTNSIGH NPPHWGAERP FYNHLGGNQV SKEMKRMGFE DPKDKNAQES ANPEDEVDEF

LGRAIDARSI DRLRSEHVRK FLLTFREPDL EKKYSKQVDD RFGAYVACAS LVFLFICFVQ
ITIVPHSLFM LSFYLSCFLL LALVVFVSVI YACVKLFPTP LQTLSRKIVR SKKNSTLVGV
FTITLVFLSA FVNMFMCNSK NLVGCLAEEH NITVNQVNAC HVMESAFNYS LGDEQGFCGS
PQPNCNFPEY FTYSVLLSLL ACSVFLQISC IGKLVLMLAI EFIYVLIVEV PGVTLFDNAD
LLVTANAIDF SNNGTSQCPE HATKVALKVV TPIIISVFVL ALYLHAQQVE STARLDFLWK
LQATEEKEEM EELQAYNRRL LHNILPKDVA AHFLARERRN DELYYQSCEC VAVMFASIAN
FSEFYVELEA NNEGVECLRL LNEIIADFDE IISEDRFRQL EKIKTIGSTY MAASGLNDST
YDKAGKTHIK AIADFAMKLM DQMKYINEHS FNNFQMKIGL NIGPVVAGVI GARKPQYDIW
GNTVNVASRM DSTGVPDRIQ VTTDMYQVLA ANTYQLECRG VVKVKGKGEM MTYFLNGGPP LS

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 Adcy5 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 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:

Three step purification of membrane proteins expressed in baculovirus infected SF9 insect cells:

1. Membrane proteins are fractioned by ultracentrifugation and subsequently solubilized with

Troduct Details	
	 different detergents (detergent screen). Samples are analyzed by Western blot. 2. The best performing detergent is used for solubilization and the proteins are purified via their rho1D4 tag via two rho1D4 antibody columns: one DTT resistant, the other one not. Eluate fractions are analyzed by Western blot. 3. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatograph. 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:	ADCY5
Alternative Name:	Adcy5 (ADCY5 Products)
Background:	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:095622}.
Molecular Weight:	140.3 kDa Including tag.
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 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

Application Details

	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	

Images

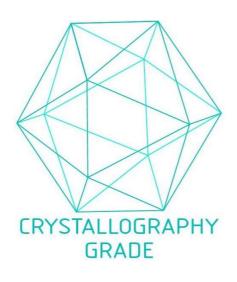


Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process