

Datasheet for ABIN3121351 ADRA2A Protein (AA 1-450) (rho-1D4 tag)



Overview	
Quantity:	1 mg
Target:	ADRA2A
Protein Characteristics:	AA 1-450
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ADRA2A protein is labelled with rho-1D4 tag.
Application:	Crystallization (Crys), ELISA, SDS-PAGE (SDS), Western Blotting (WB)
Product Details	
Sequence:	MGSLQPDAGN SSWNGTEAPG GGTRATPYSL QVTLTLVCLA GLLMLFTVFG NVLVIIAVFT
	SRALKAPQNL FLVSLASADI LVATLVIPFS LANEVMGYWY FGKVWCEIYL ALDVLFCTSS
	IVHLCAISLD RYWSITQAIE YNLKRTPRRI KAIIVTVWVI SAVISFPPLI SIEKKGAGGG QQPAEPSCKI
	NDQKWYVISS SIGSFFAPCL IMILVYVRIY QIAKRRTRVP PSRRGPDACS APPGGADRRP
	NGLGPERGAG PTGAEAEPLP TQLNGAPGEP APAGPRDGDA LDLEESSSSE HAERPPGPRR
	PDRGPRAKGK TRASQVKPGD SLPRRGPGAA GPGASGSGHG EERGGGAKAS RWRGRQNREK
	RFTFVLAVVI GVFVVCWFPF FFTYTLIAVG CPVPSQLFNF FFWFGYCNSS LNPVIYTIFN
	HDFRRAFKKI LCRGDRKRIV
	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 Adra2a Protein (raised in Insect Cells) purified by multi-step, protein-specific process

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Product Details		
		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
Purification:	Three step purification of membrane proteins expressed in baculovirus infected SF9 insect cells:
Purification:	
Purification:	cells: 1. Membrane proteins are fractioned by ultracentrifugation and subsequently solubilized with
Purification:	 cells: 1. Membrane proteins are fractioned by ultracentrifugation and subsequently solubilized with 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
Purification:	 cells: 1. Membrane proteins are fractioned by ultracentrifugation and subsequently solubilized with 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
	 cells: 1. Membrane proteins are fractioned by ultracentrifugation and subsequently solubilized with 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:	 cells: 1. Membrane proteins are fractioned by ultracentrifugation and subsequently solubilized with 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. >95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.

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Target Details

Target:	ADRA2A
Alternative Name:	Adra2a (ADRA2A Products)
Background:	Alpha-2 adrenergic receptors mediate the catecholamine-induced inhibition of adenylate cyclase through the action of G proteins.
Molecular Weight:	50.0 kDa Including tag.
UniProt:	Q01338
Pathways:	EGFR Signaling Pathway, Negative Regulation of Hormone Secretion, Carbohydrate Homeostasis, cAMP Metabolic Process, Regulation of G-Protein Coupled Receptor Protein Signaling, Negative Regulation of Transporter Activity
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.

Protein has not been tested for activity yet. In cases in which it is highly likely that the

options with you in detail to assure that you receive your protein of interest.

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

Handling

Restrictions:

Comment:

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)

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