antibodies

Datasheet for ABIN3135628 Metabotropic Glutamate Receptor 4 Protein (AA 33-912) (rho-1D4 tag)





Overview

Quantity:	1 mg
Target:	Metabotropic Glutamate Receptor 4 (GRM4)
Protein Characteristics:	AA 33-912
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Metabotropic Glutamate Receptor 4 protein is labelled with rho-1D4 tag.
Application:	Crystallization (Crys), ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Sequence:	KPKGHPHMNS IRIDGDITLG GLFPVHGRGS EGKACGELKK EKGIHRLEAM LFALDRINND
	PDLLPNITLG ARILDTCSRD THALEQSLTF VQALIEKDGT EVRCGSGGPP IITKPERVVG
	VIGASGSSVS IMVANILRLF KIPQISYAST APDLSDNSRY DFFSRVVPSD TYQAQAMVDI
	VRALKWNYVS TLASEGSYGE SGVEAFIQKS RENGGVCIAQ SVKIPREPKT GEFDKIIKRL
	LETSNARAII IFANEDDIRR VLEAARRANQ TGHFFWMGSD SWGSKSAPVL RLEEVAEGAV
	TILPKRTSVR GFDRYFSSRT LDNNRRNIWF AEFWEDNFHC KLSRHALKKG SHIKKCTNRE
	RIGQDSAYEQ EGKVQFVIDA VYAMGHALHA MHRDLCPGRV GLCPRMDPVD GTQLLKYIRN
	VNFSGIAGNP VTFNENGDAP GRYDIYQYQR RNGSAEYKVI GSWTDHLHLR IERMQWPGSG
	QQLPRSICSL PCQPGERKKT VKGMACCWHC EPCTGYQYQV DRYTCKTCPY DMRPTENRTS
	CQPIPIVKLE WDSPWAVLPL FLAVVGIAAT LFVVVTFVRY NDTPIVKASG RELSYVLLAG
	IFLCYATTFL MIAEPDLGTC SLRRIFLGLG MSISYAALLT KTNRIYRIFE QGKRSVSAPR FISPASQLAI
	TFVLISLQLL CICVWFVVDP SHSVVDFQDQ RTLDPRFARG VLKCDISDLS LICLLGYSML

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	LMVTCTVYAI KTRGVPETFN EAKPIGFTMY TTCIVWLAFI PIFFGTSQSA DKLYIQTTTL		
	TVSVSLSASV SLGMLYMPKV YIILFHPEQN VPKRKRSLKA VVTAATMSNK FTQKGNFRPN		
	GEAKSELCEN LEAPALATKQ TYVTYTNHAI		
	Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a special request, please contact us.		
	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:		
	 Membrane proteins are fractioned by ultracentrifugation and subsequently solubilized with different detergents (detergent screen). Samples are analyzed by Western blot. The best performing detergent is used for solubilization and the proteins are purified via thei rho1D4 tag via two rho1D4 antibody columns: one DTT resistant, the other one not. Eluate fractions are analyzed by Western blot. 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. 		

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Product Details		
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:	Metabotropic Glutamate Receptor 4 (GRM4)	
Alternative Name:	Grm4 (GRM4 Products)	
Background:	G-protein coupled receptor for glutamate. Ligand binding causes a conformation change that triggers signaling via guanine nucleotide-binding proteins (G proteins) and modulates the activity of down-stream effectors. Signaling inhibits adenylate cyclase activity (By similarity). {ECO:0000250}.	
Molecular Weight:	99.4 kDa Including tag.	
UniProt:	Q68EF4	
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 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	

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 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

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