antibodies

Datasheet for ABIN3114618 **Metabotropic Glutamate Receptor 1 Protein (AA 19-1194)** (rho-1D4 tag)

Image



Overview

Quantity:	1 mg
Target:	Metabotropic Glutamate Receptor 1 (GRM1)
Protein Characteristics:	AA 19-1194
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Metabotropic Glutamate Receptor 1 protein is labelled with rho-1D4 tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

Product Details

Sequence:	LPRSPGRKVL LAGASSQRSV ARMDGDVIIG ALFSVHHQPP AEKVPERKCG EIREQYGIQR
	VEAMFHTLDK INADPVLLPN ITLGSEIRDS CWHSSVALEQ SIEFIRDSLI SIRDEKDGIN
	RCLPDGQSLP PGRTKKPIAG VIGPGSSSVA IQVQNLLQLF DIPQIAYSAT SIDLSDKTLY
	KYFLRVVPSD TLQARAMLDI VKRYNWTYVS AVHTEGNYGE SGMDAFKELA AQEGLCIAHS
	DKIYSNAGEK SFDRLLRKLR ERLPKARVVV CFCEGMTVRG LLSAMRRLGV VGEFSLIGSD
	GWADRDEVIE GYEVEANGGI TIKLQSPEVR SFDDYFLKLR LDTNTRNPWF PEFWQHRFQC
	RLPGHLLENP NFKRICTGNE SLEENYVQDS KMGFVINAIY AMAHGLQNMH HALCPGHVGL
	CDAMKPIDGS KLLDFLIKSS FIGVSGEEVW FDEKGDAPGR YDIMNLQYTE ANRYDYVHVG
	TWHEGVLNID DYKIQMNKSG VVRSVCSEPC LKGQIKVIRK GEVSCCWICT ACKENEYVQD
	EFTCKACDLG WWPNADLTGC EPIPVRYLEW SNIESIIAIA FSCLGILVTL FVTLIFVLYR
	DTPVVKSSSR ELCYIILAGI FLGYVCPFTL IAKPTTTSCY LQRLLVGLSS AMCYSALVTK
	TNRIARILAG SKKKICTRKP RFMSAWAQVI IASILISVQL TLVVTLIIME PPMPILSYPS IKEVYLICNT

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	SNLGVVAPLG YNGLLIMSCT YYAFKTRNVP ANFNEAKYIA FTMYTTCIIW LAFVPIYFGS
	NYKIITTCFA VSLSVTVALG CMFTPKMYII IAKPERNVRS AFTTSDVVRM HVGDGKLPCR
	SNTFLNIFRR KKAGAGNANS NGKSVSWSEP GGGQVPKGQH MWHRLSVHVK TNETACNQTA
	VIKPLTKSYQ GSGKSLTFSD TSTKTLYNVE EEEDAQPIRF SPPGSPSMVV HRRVPSAATT
	PPLPSHLTAE ETPLFLAEPA LPKGLPPPLQ QQQQPPPQQK SLMDQLQGVV SNFSTAIPDF
	HAVLAGPGGP GNGLRSLYPP PPPPQHLQML PLQLSTFGEE LVSPPADDDD DSERFKLLQE
	YVYEHEREGN TEEDELEEEE EDLQAASKLT PDDSPALTPP SPFRDSVASG SSVPSSPVSE
	SVLCTPPNVS YASVILRDYK QSSSTL
	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. Human GRM1 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 different detergents (detergent screen). Samples are analyzed by Western blot.

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Product Details	
	 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. 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:	Metabotropic Glutamate Receptor 1 (GRM1)
Alternative Name:	GRM1 (GRM1 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 activates a phosphatidylinositol-calcium second messenger system. May participate in the central action of glutamate in the CNS, such as long- term potentiation in the hippocampus and long-term depression in the cerebellum. {ECO:0000269 PubMed:24603153, ECO:0000269 PubMed:7476890}.
Molecular Weight:	131.5 kDa Including tag.
UniProt:	Q13255
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:	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

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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