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GRIA4 Protein (AA 21-902) (rho-1D4 tag)



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Quantity:	1 mg	
Target:	GRIA4	
Protein Characteristics:	AA 21-902	
Origin:	Mouse	
Source:	Insect Cells	
Protein Type:	Recombinant	
Purification tag / Conjugate:	This GRIA4 protein is labelled with rho-1D4 tag.	
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)	

Product Details

Sequence:

GAFPSSVQIG GLFIRNTDQE YTAFRLAIFL HNTSPNASEA PFNLVPHVDN IETANSFAVT
NAFCSQYSRG VFAIFGLYDK RSVHTLTSFC SALHISLITP SFPTEGESQF VLQLRPSLRG
ALLSLLDHYE WNCFVFLYDT DRGYSILQAI MEKAGQNGWH VSAICVENFN DVSYRQLLEE
LDRRQEKKFV IDCEIERLQN ILEQIVSVGK HVKGYHYIIA NLGFKDISLE RFIHGGANVT
GFQLVDFNTP MVTKLMDRWK KLDQREYPGS ETPPKYTSAL TYDGVLVMAE TFRSLRRQKI
DISRRGNAGD CLANPAAPWG QGIDMERTLK QVRIQGLTGN VQFDHYGRRV NYTMDVFELK
STGPRKVGYW NDMDKLVLIQ DAPTLGNDTA AIENRTVVVT TIMESPYVMY KKNHEMFEGN
DKYEGYCVDL ASEIAKHIGI KYKIAIVPDG KYGARDADTK IWNGMVGELV YGKAEIAIAP
LTITLVREEV IDFSKPFMSL GISIMIKKPQ KSKPGVFSFL DPLAYEIWMC IVFAYIGVSV
VLFLVSRFSP YEWHTEEPED GKEGPSDQPP NEFGIFNSLW FSLGAFMQQG CDISPRSLSG
RIVGGVWWFF TLIIISSYTA NLAAFLTVER MVSPIESAED LAKQTEIAYG TLDSGSTKEF
FRRSKIAVYE KMWTYMRSAE PSVFTRTTAE GVARVRKSKG KFAFLLESTM NEYIEQRKPC

DTMKVGGNLD SKGYGVATPK GSSLRTPVNL AVLKLSEAGV LDKLKNKWWY DKGECGPKDS
GSKDKTSALS LSNVAGVFYI LVGGLGLAML VALIEFCYKS RAEAKRMKLT FSEAIRNKAR
LSITGSVGEN GRVLTPDCPK AVHTGTAIRQ SSGLAVIASD LP

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 Gria4 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.
- 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.
- 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.

Product Details >95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot. Purity: Sterility: 0.22 µm filtered Endotoxin Level: Protein is endotoxin-free Grade: Crystallography grade **Target Details** Target: GRIA4 Gria4 (GRIA4 Products) Alternative Name: Background: Receptor for glutamate that functions as ligand-gated ion channel in the central nervous system and plays an important role in excitatory synaptic transmission. L-glutamate acts as an excitatory neurotransmitter at many synapses in the central nervous system. Binding of the excitatory neurotransmitter L-glutamate induces a conformation change, leading to the opening of the cation channel, and thereby converts the chemical signal to an electrical impulse. The receptor then desensitizes rapidly and enters a transient inactive state, characterized by the presence of bound agonist. In the presence of CACNG4 or CACNG7 or CACNG8, shows resensitization which is characterized by a delayed accumulation of current flux upon continued application of glutamate (By similarity). {ECO:0000250}. Molecular Weight: 99.7 kDa Including tag. UniProt: Q9Z2W8 Pathways: PI3K-Akt Signaling **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
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)