antibodies

# Datasheet for ABIN3135440 GRID1 Protein (AA 21-1009) (rho-1D4 tag)



Overview

Image

Quantity:	1 mg
Target:	GRID1
Protein Characteristics:	AA 21-1009
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This GRID1 protein is labelled with rho-1D4 tag.
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)

#### Product Details

Sequence:	DSIIHIGAIF EENAAKDDRV FQLAVSDLSL NDDILQSEKI TYSIKVIEAN NPFQAVQEAC
	DLMTQGILAL VTSTGCASAN ALQSLTDAMH IPHLFVQRNP GGSPRTACHL NPSPDGEAYT
	LASRPPVRLN DVMLRLVTEL RWQKFVMFYD SEYDIRGLQS FLDQASRLGL DVSLQKVDKN
	ISHVFTSLFT TMKTEELNRY RDTLRRAILL LSPQGAHSFI NEAVETNLAS KDSHWVFVNE
	EISDPEILDL VHSALGRMTV VRQIFPSAKD NQKCMRNNHR ISSLLCDPQE GYLQMLQISN
	LYLYDSVLML ANAFHRKLED RKWHSMASLN CIRKSTKPWN GGRSMLDTIK KGHITGLTGV
	MEFREDSSNP YVQFEILGTT YSETFGKDMR KLATWDSEKG LNGSLQERPM GSRLQGLTLK
	VVTVLEEPFV MVAENILGQP KRYKGFSIDV LDALAKALGF KYEIYQAPDG RYGHQLHNTS
	WNGMIGELIS KRADLAISAI TITPERESVV DFSKRYMDYS VGILIKKPEE KISIFSLFAP
	FDFAVWACIA AAIPVVGVLI FVLNRIQAVR SQSATQPRPS ASATLHSAIW IVYGAFVQQG
	GESSVNSVAM RIVMGSWWLF TLIVCSSYTA NLAAFLTVSR MDNPIRTFQD LSKQLEMSYG
	TVRDSAVYEY FRAKGTNPLE QDSTFAELWR TISKNGGADN CVSNPSEGIR KAKKGNYAFL

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<ul> <li>KQKWWPHTGR CDLTSHSSTQ TEGKSLKLHS FAGVFCILAI GLLLACLVAA LELWWNSNRC</li> <li>HQETPKEDKE VNLEQVHRRI NSLMDEDIAH KQISPASIEL SALEMGGLAP SQALEPTREY</li> <li>QNTQLSVSTF LPEQSSHGTS RTLSSGPSSN LPLPLSSSAT MPSIQCKHRS PNGGLFRQSP</li> <li>VKTPIPMSFQ PVPGGVLPEA LDTSHGTSI</li> <li>Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a special request, please contact us.</li> <li>Made in Germany - from design to production - by highly experienced protein experts.</li> <li>Mouse Grid1 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade.</li> </ul>
<ul> <li>QNTQLSVSTF LPEQSSHGTS RTLSSGPSSN LPLPLSSSAT MPSIQCKHRS PNGGLFRQSP</li> <li>VKTPIPMSFQ PVPGGVLPEA LDTSHGTSI</li> <li>Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a special request, please contact us.</li> <li>Made in Germany - from design to production - by highly experienced protein experts.</li> <li>Mouse Grid1 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade.</li> </ul>
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Mouse Grid1 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 (Cone synthesis)
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.
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. 3. Protein containing fractions of the best purification are subjected to second purification step

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#### Product Details

	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:	GRID1
Alternative Name:	Grid1 (GRID1 Products)
Background:	Receptor for glutamate. L-glutamate acts as an excitatory neurotransmitter at many synapses in the central nervous system. The postsynaptic actions of Glu are mediated by a variety of receptors that are named according to their selective agonists.
Molecular Weight:	111.1 kDa Including tag.
UniProt:	Q61627

# Application Details

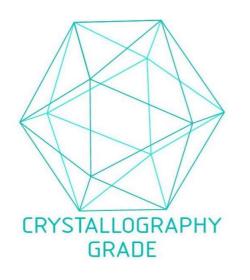
Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a gurantee though.
Comment:	Protein has not been tested for activity yet. In cases in which it is 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.

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### Handling

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

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