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Datasheet for ABIN3130974  
**GRIK3 Protein (AA 32-919) (rho-1D4 tag)**

### Overview

Quantity:	1 mg
Target:	GRIK3
Protein Characteristics:	AA 32-919
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This GRIK3 protein is labelled with rho-1D4 tag.
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)

### Product Details

Sequence:	MPHVIRIGGI FEYADGPNAQ VMNAEEHAFR FSANIINRNR TLLPNTTLY DIQRIHFHDS FEATKKACDQ LALGVVAIFG PSQG SCTNAV QSICNALEVP HIQLRWKHPH LDNKDTFYVN LYPDYASLSH AILDLVQSLK WRSATVVYDD STGLIRLQEL IMAPSRYNIR LKIRQLPIDS DDSRPLLKEM KRGREFRIIF DCSHTMAAQI LKQAMAMGMM TEYHFIFTT LDLYALDLEP YRYSGVNLTG FRILNVDNPH VSAIVEKWAM ERLQAAPRAE SGLLDGVMMT DAALLYDAVH IVSVCYQRAP QMTVNSLQCH RHKAWRFGGR FMNFIKEAQW EGLTGRIVFN KTSGLRTDFD LDIISLKEDG LEKVGWVSPA DGLNITEVAK GRGPNVTDSL TNRSIVTTV LEEPFVMFRK SDRTLYGNDR FEGYCIDLLK ELAHILGFSY EIRLVEDGKY GAQDDKGQWN GMVKELIDHK ADLAVAPLTI THVREKAIDF SKPFMTLVGS ILYRKPNGTN PSVFSFLNPL SPDIWMYVLL AYLGVSCVLF VIARFSPYEW YDAHPCNPGS EVVENNFTLL NSFVFGMGSL MQQGSELMFK ALSTRIIGGI WWFFTLIIIS SYTANLAAFL TVERMESPID SADDLAKQTK IEYGAVKDGA TMTFFKSKI STFEKMWAFM SSKPSALVKN NEEGIQRTLT ADYALLMEST TIEYITQRNC
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NLTQIGGLID SKGYGIGTPM GSPYRDKITI AILQLQEEDK LHIMKEKWWR GSGCPEEENK  
EASALGIQKI GGIFIVLAAG LVLSVLVAVG EFIYKLRKTA EREQRSFCST VADEIRFSLT  
CQRRLKHHPQ PPMVKTDAV INMHTFNDRR LPGKDSMSCS TSLAPVFP

**Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a special request, please contact us.**

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### Characteristics:

- Made in Germany - from design to production - by highly experienced protein experts.
- Mouse Grik3 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 receipt 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.

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### Purification:

Three step purification of membrane proteins expressed in baculovirus infected SF9 insect cells:

1. Membrane proteins are fractionated 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.

## Product Details

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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

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Target:	GRIK3
Alternative Name:	Grik3 ( <a href="#">GRIK3 Products</a> )
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. The postsynaptic actions of Glu are mediated by a variety of receptors that are named according to their selective agonists. This receptor binds domoate > kainate >> L-glutamate = quisqualate >> AMPA = NMDA (By similarity). {ECO:0000250}.
Molecular Weight:	101.5 kDa Including tag.
UniProt:	<a href="#">B1AS29</a>
Pathways:	<a href="#">Synaptic Membrane</a>

## Application Details

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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 guarantee 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

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Format:	Liquid
Buffer:	100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufacturer.

## Handling

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Handling Advice: Avoid repeated freeze-thaw cycles.

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Storage: -80 °C

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Storage Comment: Store at -80°C.

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Expiry Date: Unlimited (if stored properly)