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Glutamate Receptor 3 Protein (AA 29-894) (rho-1D4 tag)





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Overview

Quantity:	1 mg
Target:	Glutamate Receptor 3 (GRIA3)
Protein Characteristics:	AA 29-894
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Glutamate Receptor 3 protein is labelled with rho-1D4 tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA, Crystallization (Crys)

Product Details

Sequence:

GFPNTISIGG LFMRNTVQEH SAFRFAVQLY NTNQNTTEKP FHLNYHVDHL DSSNSFSVTN
AFCSQFSRGV YAIFGFYDQM SMNTLTSFCG ALHTSFVTPS FPTDADVQFV IQMRPALKGA
ILSLLGHYKW EKFVYLYDTE RGFSILQAIM EAAVQNNWQV TARSVGNIKD VQEFRRIIEE
MDRRQEKRYL IDCEVERINT ILEQVVILGK HSRGYHYMLA NLGFTDILLE RVMHGGANIT
GFQIVNNENP MVQQFIQRWV RLDEREFPEA KNAPLKYTSA LTHDAILVIA EAFRYLRRQR
VDVSRRGSAG DCLANPAVPW SQGIDIERAL KMVQVQGMTG NIQFDTYGRR TNYTIDVYEM
KVSGSRKAGY WNEYERFVPF SDQQISNDSA SSENRTIVVT TILESPYVMY KKNHEQLEGN
ERYEGYCVDL AYEIAKHVRI KYKLSIVGDG KYGARDPETK IWNGMVGELV YGRADIAVAP
LTITLVREEV IDFSKPFMSL GISIMIKKPQ KSKPGVFSFL DPLAYEIWMC IVFAYIGVSV
VLFLVSRFSP YEWHLEDNNE EPRDPQSPPD PPNEFGIFNS LWFSLGAFMQ QGCDISPRSL
SGRIVGGVWW FFTLIIISSY TANLAAFLTV ERMVSPIESA EDLAKQTEIA YGTLDSGSTK
EFFRRSKIAV YEKMWSYMKS AEPSVFTKTT ADGVARVRKS KGKFAFLLES TMNEYIEQRK

PCDTMKVGGN LDSKGYGVAT PKGSALRNAV NLAVLKLNEQ GLLDKLKNKW WYDKGECGSG GGDSKDKTSA LSLSNVAGVF YILVGGLGLA MMVALIEFCY KSRAESKRMK LTKNTQNFKP APATNTONYA TYREGYNVYG TESVKI

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 GRIA3 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: Glutamate Receptor 3 (GRIA3) GRIA3 (GRIA3 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. {ECO:0000269|PubMed:21172611}. Molecular Weight: 99.3 kDa Including tag. UniProt: P42263 Pathways: PI3K-Akt Signaling, cAMP Metabolic Process, Synaptic Membrane **Application Details Application Notes:** In addition to the applications listed above we expect the protein to work for functional studies though.

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.

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Restrictions:

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

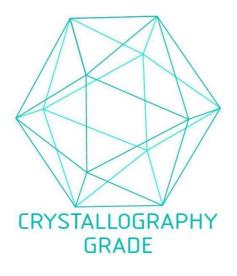


Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process