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## Datasheet for ABIN3092834 Glutamate Receptor 3 Protein (AA 29-552) (His tag)



Overview

Image

Quantity:	1 mg
Target:	Glutamate Receptor 3 (GRIA3)
Protein Characteristics:	AA 29-552
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Glutamate Receptor 3 protein is labelled with His 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 DPLA
	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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Product Details	
Characteristics:	<ul> <li>Made in Germany - from design to production - by highly experienced protein experts.</li> <li>Human GRIA3 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade.</li> <li>State-of-the-art algorithm used for plasmid design (Gene synthesis).</li> </ul>
	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:	Two step purification of proteins expressed in baculovirus infected SF9 insect cells:
	<ol> <li>In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate fractions are analyzed by SDS-PAGE.</li> </ol>
	<ol> <li>Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.</li> </ol>
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

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Target Details	
Target:	Glutamate Receptor 3 (GRIA3)
Alternative Name:	GRIA3 (GRIA3 Products)
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:	60.9 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 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
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.

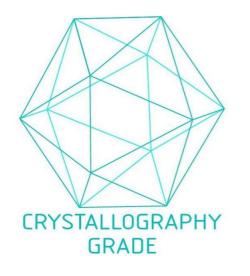
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Handling
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Expiry Date:

Unlimited (if stored properly)

## Images



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

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