

Datasheet for ABIN3137646

Glutamate Receptor 3 Protein (AA 23-546) (His tag)[Go to Product page](#)**1** Image

Overview

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|-------------------------------|--|
| Quantity: | 1 mg |
| Target: | Glutamate Receptor 3 (GRIA3) |
| Protein Characteristics: | AA 23-546 |
| Origin: | Mouse |
| 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

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| Sequence: | <p>GFPNTISIGG LFM RNTVQEH SAFRFAVQLY NTNQNTTEKP FHLNYHVDHL DSSNSFSVTN AFCSQFSRGV YAIFGFYDQM SMNTLTSFCG ALHTSFVTPS FPTDADVQFV IQMRPALKGA ILSLLGYWKW EK FVYLYDTE RGFSILQAIM EAAVQNNWQV TARSVGNIKD IQEFRRIEEE MDRRQEKRYL IDCEVERINT ILEQVVILGK HSRGYHYMLA NLGFTDIVLE RVMHGGANIT GFQIVNNENP MVQQFIQRWV RLDEREFPEA KNAPLKYTSA LTHDAILVIA EAFRYLRRQR VDVSRRGSGAG DCLANPAVPW SQGIDIERAL KMOVQVQGMTG NIQFDTYGRR TNYTIDVYEM KVSGSRKAGY WNEYERFVPF SDQQISNDSS SSENRTIVVT TILESPLYVMY KKNHEQLEGN ERYEGYCVDL AYEIAKHVRI KYKLSIVGDG KYGARDPETK IWNGMVGELV YGRADIAVAP LTITLVREEV IDFSKPFMSL GISIMIKKPQ KSKPGVFSFL DPLA</p> <p>Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a special request, please contact us.</p> |
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Product Details

- Characteristics:
- Made in Germany - from design to production - by highly experienced protein experts.
 - Mouse 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 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.

- Purification:
- Two step purification of proteins expressed in baculovirus infected SF9 insect cells:
1. 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.
 2. 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.

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: | 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 (By similarity). {ECO:0000250}. |
| Molecular Weight: | 60.9 kDa Including tag. |
| UniProt: | Q9Z2W9 |
| Pathways: | PI3K-Akt Signaling , cAMP Metabolic Process , Synaptic Membrane |

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 Advice: | Avoid repeated freeze-thaw cycles. |
| Storage: | -80 °C |
| Storage Comment: | Store at -80°C. |

Handling

Expiry Date: Unlimited (if stored properly)

Images



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