

PRODUCT INFORMATION

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| Tag | C-Flag&Strep Tag |
| Expression Host | HEK293 |
| Target | GRIA1 |
| Synonyms | GluA1; GLUH1; GLUR1; GLURA; HBGR1 |
| Description | Human GRIA1-Strep full length protein-synthetic nanodisc |
| Uniprot ID | P42261 |
| Protein Families | Druggable Genome, Ion Channels: Glutamate Receptors, Transmembrane |
| Protein Pathways | Amyotrophic lateral sclerosis (ALS), Long-term depression, Long-term potentiation, Neuroactive ligand-receptor interaction |
| Molecular Weight | The human full length GRIA1-Strep protein has a MW of 101.5 kDa |
| Delivery | In Stock |
| Formulation & Reconstitution | Lyophilized from nanodisc solubilization buffer (20 mM Tris-HCl, 150 mM NaCl, pH 8.0). Normally 5% - 8% trehalose is added as protectants before lyophilization. Please see Certificate of Analysis for specific instructions. Do not use solvents with a pH below 6.5 or those containing high concentrations of divalent metal ions (greater than 5 mM) in subsequent experiments. |
| Sterility | Products are supplied non-sterile. For cell culture applications, dilute in appropriate medium and sterile-filter (0.22 µm) prior to use. |
| Storage&Shipping | Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature. |
| Background | Glutamate receptors are the predominant excitatory neurotransmitter receptors in the mammalian brain and are activated in a variety of normal neurophysiologic processes. These receptors are heteromeric protein complexes with multiple subunits, each possessing transmembrane regions, and all arranged to form a ligand-gated ion channel. The classification of glutamate receptors is based on their activation by different pharmacologic agonists. This gene belongs to a family of alpha-amino-3-hydroxy-5-methyl-4-isoxazole propionate (AMPA) receptors. |
| Usage | Research use only |
| Conjugate | Unconjugated |



ELISA assay to evaluate GRIA1-Strep-Nanodisc 0.2 μ g Human GRIA1-Strep-Nanodisc per well

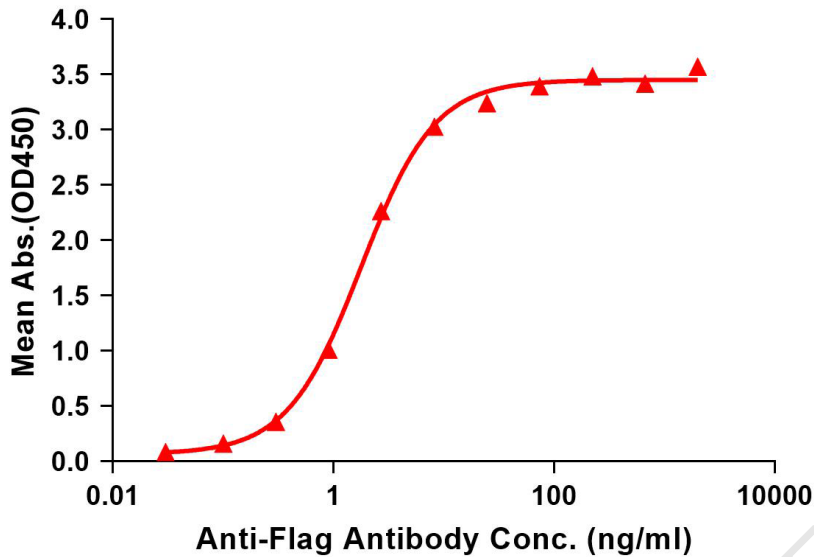


Figure 1. Elisa plates were pre-coated with C-Flag&Strep Tag GRIA1-Strep-Nanodisc (0.2 μ g/per well). Serial diluted anti-Flag monoclonal antibody solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti-Flag monoclonal antibody binding with GRIA1-Strep-nanodisc is 1.782ng/ml.

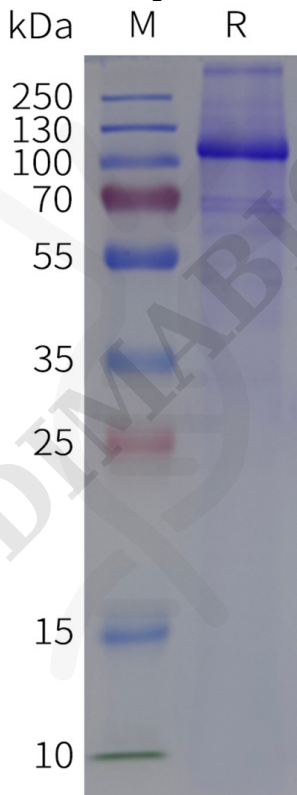


Figure 2. Human GRIA1-Strep-Nanodisc, C-Flag&Strep Tag on SDS-PAGE

