

## **PRODUCT INFORMATION**

C-Flag&Strep Tag Tag

**Target** GRM3

**Synonyms** GLUR3; GPRC1C; mGlu3; MGLUR3

Human GRM3-Strep full length protein-synthetic **Description** 

nanodisc

**Delivery** In Stock **Uniprot ID** Q14832 **Expression Host HEK293** 

Formulation & Reconstitution

Storage & Shipping

**Background** 

**Protein Families** Druggable Genome, GPCR, Transmembrane

**Protein Pathways** Neuroactive ligand-receptor interaction

The human full length GRM3-Strep protein has a **Molecular Weight** 

MW of 98.9 kDa 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.

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.

L-glutamate is the major excitatory

neurotransmitter in the central nervous system and activates both ionotropic and metabotropic

glutamate receptors. Glutamatergic

neurotransmission is involved in most aspects of normal brain function and can be perturbed in

many neuropathologic conditions. The metabotropic glutamate receptors are a family of G protein-coupled receptors, that have been

divided into 3 groups on the basis of sequence homology, putative signal transduction

mechanisms, and pharmacologic properties. Group I includes GRM1 and GRM5 and these receptors have been shown to activate phospholipase C. Group II includes GRM2 and GRM3 while Group III includes GRM4, GRM6, GRM7 and GRM8. Group II and III receptors are linked to the inhibit against selectivities.

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but differ in their agonist selectivities.

**Usage** Research use only Conjugate Unconjugated





## ELISA assay to evaluate GRM3-Strep-Nanodisc 0.2µg Human GRM3-Strep-Nanodisc per well

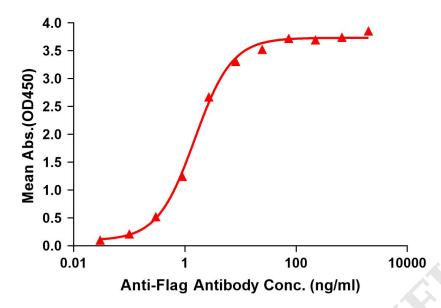


Figure 1. Elisa plates were pre-coated with C-Flag&Strep Tag GRM3-Strep-Nanodisc (0.2 $\mu$ g/per well). Serial diluted anti-Flag monoclonal antibody solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti-Flag monoclonal antibody binding with GRM3-Strep-nanodisc is 1.509ng/ml.

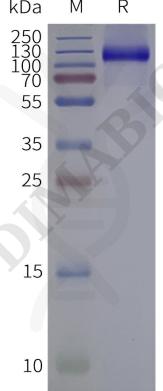


Figure 2. Human GRM3-Strep-Nanodisc, C-Flag&Strep Tag on SDS-PAGE

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