

PRODUCT INFORMATION

Tag C-Flag Tag

Target GRM2

Synonyms GLUR2; GPRC1B; mGlu2; MGLUR2

DescriptionHuman GRM2 full length protein-synthetic

Delivery In Stock
Uniprot ID Q14416
Expression Host HEK293

Storage & Shipping

Background

Protein Families Druggable Genome, GPCR, Transmembrane

Protein Pathways Neuroactive ligand-receptor interaction

Molecular Weight

The human full length GRM2 protein has a MW of

95.6 kDa

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

lyophilization. Please see Certificate of Analysis for specific instructions of reconstitution. 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 seguence

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 inhibition of the cyclic AMP cascade

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but differ in their agonist selectivities.

Usage Research use only

Conjugate Unconjugated





ELISA assay to evaluate GMR2-Nanodisc 0.2μg Human GRM2-Nanodisc per well

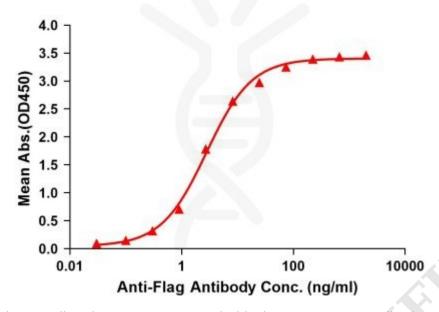


Figure 1. Elisa plates were pre-coated with Flag Tag GRM2-Nanodisc (0.2 μ g/per well). Serial diluted anti-Flag monoclonal antibody solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti-Flag monoclonal antibody binding with GRM2-Nanodisc is 2.794ng/ml.



Figure 2. Human GRM2-Nanodisc, Flag Tag on SDS-PAGE

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