

## **PRODUCT INFORMATION**

Tag C-Flag&Strep Tag

GRM8 **Target** 

Formulation &

Reconstitution

Storage & Shipping

**Background** 

**Synonyms** GLUR8, GPRC1H, MGLUR8, mGlu8

Human GRM8-Strep full length protein-synthetic **Description** 

nanodisc **Delivery** 6~8weeks **Uniprot ID** 000222 **Expression Host HEK293** 

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

GPCRDB Class C Metabotropic glutamate pheromone, GPCRDB Other, G-Protein Coupled Receptors Signaling Pathway, **Protein Pathways** 

The human full length GRM8-Strep protein has a **Molecular Weight** 

MW of 101.7 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 inhibition of the cyclic AMP cascade

but differ in their agonist selectivities.

Alternatively spliced transcript variants encoding different isoforms have been described for this

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gene. [provided by RefSeq, Jul 2008]

Usage Research use only

Conjugate Unconjugated



