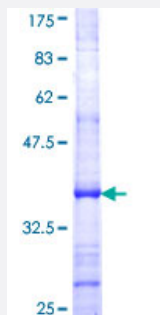


GRM2 (Human) Recombinant Protein (Q01)

Catalog # H00002912-Q01

Size 25 ug, 10 ug

Applications



Specification

Product Description	Human GRM2 partial ORF (NP_000830, 414 a.a. - 506 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	NGRRLYKDFVLNVKFDAPFRPADTHNEVRFD RFGDGIGRYNIFTYLRAGSGRYRYQKVG YWAEGL TLDTSLIPWASPSAGPLAASRCSEPC LQ
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	35.97
Preparation Method	in vitro wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — GRM2

Entrez GeneID [2912](#)

GeneBank Accession# [NM_000839](#)

Protein Accession# [NP_000830](#)

Gene Name GRM2

Gene Alias GLUR2, GPRC1B, MGLUR2, mGlu2

Gene Description glutamate receptor, metabotropic 2

Omim ID [604099](#)

Gene Ontology [Hyperlink](#)

Gene Summary

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. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq]

Other Designations glutamate metabotropic receptor 2|glutamate receptor homolog

Pathway

- [Neuroactive ligand-receptor interaction](#)

Disease

- [Amphetamine-Related Disorders](#)
- [Cognition](#)
- [Genetic Predisposition to Disease](#)
- [Mental Disorders](#)
- [Mood Disorders](#)
- [Psychoses](#)
- [Schizophrenia](#)
- [Schizophrenic Psychology](#)
- [Weight Gain](#)