

## Recombinant Full Length Human GRM2 Protein

**Cat. No.** GRM2-5580HF    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
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| <b>Product Overview</b> | Human GRM2 full-length ORF (NP_000830.2) recombinant protein without tag.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Source</b>           | In Vitro Cell Free System                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>ProteinLength</b>    | 841 amino acids                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Description</b>      | <p>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]</p> |
| <b>Form</b>             | Liquid                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Molecular Mass</b>   | 95.6 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

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**AA Sequence**

MGSLLALLALLLLWGAVAEGPAKKVLTLEGDLVLGGLFPVHQKGGPAEDCGPVNEH  
 RGIQRLEAMLFALDRINRDPHLLPGVRLGAHILDSCSKDTHALEQALDFVRASLSRGA  
 DGSRHICPDGSYATHGDAPTAITGVIGGSYSVSIQVANLLRLFQIPQISYASTSAKLS  
 DKSRYDYFARTVPPDFFQAKAMAEILRFFNWTYVSTVASEGDYGETGIEAFELEARA  
 RNICVATSEKVGRAMSRAAFEGVVRALLQKPSARVAVLFTRSEDARELLAASQRLNA  
 SFTWVASDGGWGALESVVAGSEGAEGAITIELASYPISDFASYFQSLDPWNNRNP  
 WFREFWEQRFRCFSFRQRDCAHSLRAVPFEQESKIMFVVNAVYAMAHALHNMHRA  
 LCPNTRRLCDAMRPVNGRRLYKDFVLNVKFDAPFRPADTHNEVRFDGIGRYN  
 IFTYLRAGSGRYRYQKVGYWAEGLTDLTSLIPWASPSAGPLPASRCSEPCLQNEVK  
 SVQPGEVCCWLCIPCQPYEYRLDEFTCADCGLGYWPNASLTGCFELPQEYIRWGD  
 AWAVGPVTIACLGALATLFLVGVFVRHNATPVVKASGRELCYILLGGVFLCYCMTFIFI  
 AKPSTAVCTLRRLGLGTAFSVCYSALLTKTNRIARIFGGAREGAQRPRFISPASQVAI  
 CLALISGQLLIVVAWLVEAPGTGKETAPERREVTLRCNHRDASMLGSLAYNVLLIA  
 LCTLYAFKTRKCPENFNEAKFIGFTMYTTTCIIWLAFLPIFYVTSSDYRVQTTTMCVSVS  
 LSGSVVLGCLFAPKLHIILFQPQKNVSHRAPTSRFGSAAARASSSLGQSGSQFVP  
 TVCNGREVDSTTSSL

**Applications**

Antibody Production  
 Functional Study  
 Compound Screening

**Notes**

Best use within three months from the date of receipt of this protein.

**Storage**

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

**Storage Buffer**

25 mM Tris-HCl of pH8.0 containing 2% glycerol.

**GENE INFORMATION**
**Gene Name**

GRM2 glutamate receptor, metabotropic 2 [ Homo sapiens ]

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|                        |                                                                                                                                                                           |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Official Symbol</b> | GRM2                                                                                                                                                                      |
| <b>Synonyms</b>        | GRM2; glutamate receptor, metabotropic 2; metabotropic glutamate receptor 2; GPRC1B; mGlu2; MGLUR2; glutamate receptor homolog; glutamate metabotropic receptor 2; GLUR2; |
| <b>Gene ID</b>         | 2912                                                                                                                                                                      |
| <b>mRNA Refseq</b>     | NM_000839                                                                                                                                                                 |
| <b>Protein Refseq</b>  | NP_000830                                                                                                                                                                 |
| <b>MIM</b>             | 604099                                                                                                                                                                    |
| <b>UniProt ID</b>      | Q14416                                                                                                                                                                    |

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