# Recombinant Full Length Human GRM3 Protein

**Cat. No.** GRM3-599HF **Lot. No.** (See product label)

## SPECIFICATION

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| **Product Overview** | Recombinant full length Human GRM3 was expressed in Wheat Germ. |
| **Species** | Human |
| **Source** | In Vitro Cell Free System |
| **ProteinLength** | 879 amino acids |
| **Description** | 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. |
| **Form** | 25 mM Tris-HCl of pH8.0 containing 2% glycerol. |
| **Molecular Mass** | 98.9 kDa |
| **AA Sequence** | MKMLTRLQVL TLALFSKGFL LSLGDHNFLR REIKIEGDLV LGGLFPINEK |

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| | GTGTEECGRI NEDRGIQRLE AMLFAIDEIN KDDYLLPGVK LGVHILDTCS RDTYALEQSL EFVRASLTKV DEAEYMCPDG SYAIQENIPL LIAGVIGGSY SSVSIQVANL LRLFQIPQIS YASTSAKLSD KSRYDYFART VPPDFYQAKA MAEILRFFNW TYVSTVASEG DYGETGIEAF EQEARLRNIC IATAEKVGRS NIRKSYDSVI RELLQKPNAR VVVLFMRSDD SRELIAAASR ANASFTWVAS DGWGAQESII KGSEHVAYGA ITLELASQPV RQFDRYFQSL NPYNNHRNPW FRDFWEQKFQ CSLQNKRNHR RVCDKHLAID SSNYEQESKI MFVVNAVYAM AHALHKMQRT LCPNTTKLCD AMKILDGKKL YKDYLLKINF TAPFNPNKDA DSIVKFDTFG DGMGRYNVFN FQNVGGKYSY LKVGHWAETL SLDVNSIHWS RNSVPTSQCS DPCAPNEMKN MQPGDVCCWI CIPCEPYEYL ADEFTCMDCG SGQWPTADLT GCYDLPEDYI RWEDAWAIGP VTIACLGFMC TCMVVTVFIK HNNTPLVKAS GRELCYILLF GVGLSYCMTF FFIAKPSPVI CALRRLGLGS SFAICYSALL TKTNCIARIF DGVKNGAQRP KFISPSSQVF ICLGLILVQI VMVSVWLILE APGTRRYTLA EKRETVILKC NVKDSSMLIS LTYDVILVIL CTVYAFKTRK CPENFNEAKF IGFTMYTTCI IWLAFLPIFY VTSSDYRVQT TTMCISVSLS GFVVLGCLFA PKVHIILFQP QKNVVTHRLH LNRFSVSGTG TTYSQSSAST YVPTVCNGRE VLDSTTSSL |
| **Applications** | Enzyme-linked Immunoabsorbent Assay; Western Blot (Recombinant protein); Antibody Production; Protein Array |
| **Storage** | Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing. |

## GENE INFORMATION

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| **Gene Name** | GRM3 glutamate receptor, metabotropic 3 [ Homo sapiens ] |
| **Official Symbol** | GRM3 |
| **Synonyms** | GRM3; glutamate receptor, metabotropic 3; metabotropic glutamate receptor 3; |

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| | GPRC1C; mGlu3; MGLUR3; glutamate metabotropic receptor 3; GLUR3 |
| **Gene ID** | 2913 |
| **mRNA Refseq** | NM_000840 |
| **Protein Refseq** | NP_000831 |
| **MIM** | 601115 |
| **UniProt ID** | Q14832 |

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