

Recombinant Full Length Human GRM3 Protein

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

SPECIFICATION

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 YASTSAKLSK KSRDYDFART VPPDFYQAKA
 MAEILRFFNW TYVSTVASEG DYGETGIEAF EQEARLRNIC IATAEKVGRS
 NIRKSYDSVI RELLQKPNAR VVLFMRSDS SRELIAAASR ANASFTWVAS
 DGWGAQESII KGSEHVAYGA ITLELASQPV RQFDYRFQSL NPYNHHRNPW
 FRDFWEQKFQ CSLQNKRNHR RVCDKHLAID SSNYEQESKI MFVVNAVYAM
 AHALHKMQRT LCPNTTKLCD AMKILDGKKL YKDYLLKINF TAPFNPKNDA
 DSIVKFDTFG DGMGRYNVFN FQNVGGKYSY LKVGHWAEHL SLDVNSIHWS
 RNSVPTSQCS DPCAPNEMKN MQPGDVCCWI CIPCEPYEYL ADEFTCMDG
 SGQWPTADLT GCYDLPEDI RWEDAWAIGP VTIACLGFMC TCMVTVFIK
 HNNTPLVKAS GRELCYILLF GVGLSYCMTE FFIKPSPIV CALRRLGLGS
 SFAICYSALL TKTNCIARIF DGVKNGAQRK KFISPSSQVF ICLGLILVQI
 VMVSVWLILE APGTRRYTLA EKRETVILKC NVKDSSMLIS LTYDVILVIL
 CTVYAFKTRK CPENFNEAKF IGFTMYTTCI IWLAFPLIFY VTSSDYRVQT
 TTMCISVSLS GFVVLGCLFA PKVHILFQP 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

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 Tel: 1-631-559-9269 1-516-512-3133 Email: info@creative-biomart.com  Fax: 1-631-938-8127 45-1 Ramsey Road, Shirley, NY 11967, USA