

Recombinant Human GRM3 protein

Cat. No. GRM3-29610TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human GRM3 was expressed in Wheat Germ.
Species	Human
Source	Wheat Germ
ProteinLength	1-879 aa
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	MKMLTRLQVLTLALFSKGFLSLGDHNLRRREIKIEGDLVLGGLFPINEKGTGTEECG

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RINEDRGIQRLEAMLFA IDEINKDDYLLPGVKLG VHILDTCSRDTYALEQSLEFVRASL
 TKVDEAEYMCPDGSYAIQENIPLLIAGVIGGSY SSVSIQVANLLRLFQIPQISYASTSA
 KLSDKSRDYDFARTVPPDFYQAKAMAEILRFFNWTYVSTVASEGDYGET GIEAFEQ
 EARLRNICIATAEKVGRSNIRKSYDSVIRELLQKPNARVVLFMRSDDSRELIAAASRA
 NASFTWVAS DGWGAQESIIGSEHVAYGAILLELASQPVRQFDRYFQSLNPYNNHR
 NPWFRDFWEQKFQCSLQNKRNHRRVCDK HLAISSNYEQESKIMFVVNAVYAMAH
 ALHKMQRTLCPNTTKLCDAMKILDGKKLYKDYLLKINFTAPFNPKNDA DSIVKFDTFG
 DGMGRYNVFNFNQNVGGKYSYLKVGHWAETSLDVNSIHWSRNSVPTSQCSDPCAP
 NEMKNMQPGD VCCWICIPCEPYEYLADEFTCMDCGSGQWPTADLTGCYDLPEDI
 RWEDAWAIGPVTIACLGFMCTCMVTVFIK HNNTPLVKASGRELCYILLFGVGLSYC
 MTFFFIKPSPVICALRRLGLGSSFAICYSALLTKTNCIARIFDGVKN GAQRPKFISPS
 SQVFICLGLILVQIVMVS VWLILEAPGTRRYTLAEKRETVILKCNVDSSMLISLTVDVI
 LVIL CTVYAFKTRKCPENFNEAKFIGFTMYTTCIIWLAFLPIFYVTSSDYRVQTTTMCIS
 VSLSGFVVLGCLFAPKVHI ILFQPQKNVTHRLHLNRFSVSGTGTTYSQSSASTYVP
 TVCNGREVLDTTSSL

Applications

Antibody Production; Functional Study: Recommended usage only, not validated yet. Compound Screening: Recommended usage only, not validated yet.

Notes

Best use within three months from the date of receipt of this protein. Heating may cause protein aggregation. Please do not heat this product before electrophoresis.

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

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Synonyms	GRM3; glutamate receptor, metabotropic 3; metabotropic glutamate receptor 3; GPRC1C; mGlu3; MGLUR3; glutamate metabotropic receptor 3; GLUR3;
Gene ID	2913
mRNA Refseq	NM_000840
Protein Refseq	NP_000831
MIM	601115
UniProt ID	Q14832
Chromosome Location	7q21.1-q21.2
Pathway	Class C/3 (Metabotropic glutamate/pheromone receptors), organism-specific biosystem; Cocaine addiction, organism-specific biosystem; Cocaine addiction, conserved biosystem; GPCR ligand binding, organism-specific biosystem; GPCRs, Class C Metabotropic glutamate, pheromone, organism-specific biosystem; Glutamatergic synapse, organism-specific biosystem; Glutamatergic synapse, conserved biosystem;
Function	G-protein coupled receptor activity; G-protein coupled receptor activity; calcium channel regulator activity; glutamate receptor activity; group II metabotropic glutamate receptor activity; receptor activity; signal transducer activity;