

Recombinant Human GRM3

Cat. No. GRM3-29609TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment of Human Metabotropic Glutamate Receptor 3 with N terminal proprietary tag, 36.63kDa.
Species	Human
Source	Wheat Germ
ProteinLength	100 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.
Molecular Weight	36.630kDa inclusive of tags
Form	Liquid

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Purity	Proprietary Purification
Storage buffer	pH: 8.00 Constituents: 0.3% Glutathione, 0.79% Tris HCl
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	LSLGDHNFLRREIKIEGDLVLGGLFPINEKGTGTEECGRINEDRGIQRLEAMLFAIDEI NKDDYLLPGVKLGHVHILDTCSRDTYALEQSLEFVRASLTKV
Sequence Similarities	Belongs to the G-protein coupled receptor 3 family.

GENE INFORMATION

Gene Name	GRM3 glutamate receptor, metabotropic 3 [Homo sapiens]
Official Symbol	GRM3
Synonyms	GRM3; glutamate receptor, metabotropic 3; metabotropic glutamate receptor 3; GPRC1C; mGlu3; MGLUR3;
Gene ID	2913
mRNA Refseq	NM_000840
Protein Refseq	NP_000831
MIM	601115
Uniprot ID	Q14832

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Chromosome Location	7q21.1-q21.2
Pathway	Class C/3 (Metabotropic glutamate/pheromone receptors), organism-specific 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;

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