Recombinant Human GRM8

Cat. No. GRM8-28274TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment corresponding to amino acids 486-575 of Human Metabotropic Glutamate Receptor 8 with an N terminal proprietary tag; Predicted MWt 35.53 kDa.
Species	Human
Source	Wheat Germ
ProteinLength	90 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. Alternatively spliced transcript variants encoding different isoforms have been described for this gene.
Molecular Weight	35.530kDa inclusive of tags

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Form	Liquid
Purity	Proprietary Purification
Storage buffer	pH: 8.00Constituents: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	KVIGHWTNQLHLKVEDMQWAHREHTHPASVCSLPCKPGERKKTVKGVPCCWHCE RCEGYNYQVDELSCELCPLDQRPNMNRTGCQLIPII
Sequence Similarities	Belongs to the G-protein coupled receptor 3 family.

GENE INFORMATION

Gene Name	GRM8 glutamate receptor, metabotropic 8 [Homo sapiens]
Official Symbol	GRM8
Synonyms	GRM8; glutamate receptor, metabotropic 8; metabotropic glutamate receptor 8; GLUR8; GPRC1H; mGlu8; MGLUR8;
Gene ID	2918
mRNA Refseq	NM_000845
Protein Refseq	NP_000836
MIM	601116

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Uniprot ID	O00222
Chromosome Location	7q31.3-q32.1
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; GPCRs, Other, organism-specific biosystem; Glutamatergic synapse, organism-specific biosystem;
Function	G-protein coupled receptor activity; glutamate receptor activity; group III metabotropic glutamate receptor activity; receptor activity; signal transducer activity;

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