GRM5 blocking peptide (DAG-P0040)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen 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. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jan 2009]
Conjugate	Unconjugated
Applications	BL
Format	Liquid
Preservative	None
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.

GENE INFORMATION

Gene Name	GRM5 glutamate receptor, metabotropic 5 [Homo sapiens (human)]
Official Symbol	GRM5
Synonyms	GRM5; glutamate receptor, metabotropic 5; mGlu5; GPRC1E; MGLUR5; metabotropic glutamate receptor 5; GRM5 variant 9; metabotropic glutamate receptor 5 variant F;

45-1 Ramsey Road, Shirley, NY 11967, USA
Email: info@creative-diagnostics.com
Tel: 1-631-624-4882 Fax: 1-631-938-8221

	metabotropic glutamate receptor 5 variant G; metabotropic glutamate receptor 5 variant H;
Entrez Gene ID	2915
mRNA Refseq	NM_000842.3
Protein Refseq	NP_000833.1
UniProt ID	A8K5P7
Chromosome Location	11q14.3
Pathway	Calcium signaling pathway, organism-specific biosystem; Calcium signaling pathway, conserved biosystem; Class C/3 (Metabotropic glutamate/pheromone receptors), organism-specific biosystem; G alpha (q) signalling events, organism-specific biosystem; GPCR downstream signaling, organism-specific biosystem; GPCR ligand binding, organism-specific biosystem; GPCRs, Class C Metabotropic glutamate, pheromone, organism-specific biosystem; Gap junction, organism-specific biosystem; Gap junction, conserved
Function	A2A adenosine receptor binding; G-protein coupled receptor activity; glutamate receptor activity;

45-1 Ramsey Road, Shirley, NY 11967, USA
Email: info@creative-diagnostics.com
Tel: 1-631-624-4882 Fax: 1-631-938-8221