Recombinant Human GRM1 protein, GST-tagged

Cat. No. GRM1-29607TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human GRM1(387 a.a. - 486 a.a.) fused with GST tag at N-terminal was expressed in Wheat Germ.
Species	Human
Source	Wheat Germ
ProteinLength	387-486 a.a.
Description	This gene encodes a metabotropic glutamate receptor that functions by activating phospholipase C. 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 canonical alpha isoform of the encoded protein is a disulfide-linked homodimer whose activity is mediated by a G-protein-coupled phosphatidylinositol-calcium second messenger system. This gene may be associated with many disease states, including schizophrenia, bipolar disorder, depression, and breast cancer. Alternative splicing results in multiple transcript variants encoding different isoforms.
Form	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Molecular Mass	36.74 kDa
AA Sequence	NPNFKRICTGNESLEENYVQDSKMGFVINAIYAMAHGLQNMHHALCPGHVGLCDAM

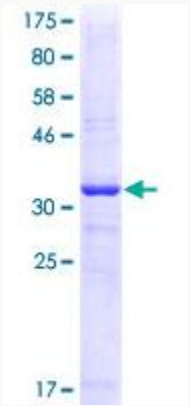
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	KPIDGSKLLDFLIKSSFIGVSGEEVWFDEKGDAPGRYDIMNLQY
Applications	Enzyme-linked Immunoabsorbent Assay; Western Blot (Recombinant protein); Antibody Production; Protein Array
Notes	Best use within three months from the date of receipt of this protein.
Storage	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

GENE INFORMATION

Gene Name	GRM1 glutamate receptor, metabotropic 1 [Homo sapiens]
Official Symbol	GRM1
Synonyms	GRM1; glutamate receptor, metabotropic 1; metabotropic glutamate receptor 1; GPRC1A; mGlu1; MGLUR1; GRM1A; MGLUR1A;
Gene ID	2911
mRNA Refseq	NM_000838
Protein Refseq	NP_000829
MIM	604473
UniProt ID	Q13255
Chromosome Location	6q24
Pathway	Calcium signaling pathway, organism-specific biosystem; Calcium signaling pathway,

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	conserved biosystem; 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; Gap junction, organism-specific biosystem;
Function	G-protein coupled receptor activity; estrogen receptor binding; glutamate receptor activity; receptor activity; signal transducer activity;
	

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