

## Recombinant Human GRM1 protein, GST-tagged

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

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human GRM1(387 a.a. - 486 a.a.) fused with GST tag at N-terminal was expressed in Wheat Germ.
<b>Species</b>	Human
<b>Source</b>	Wheat Germ
<b>ProteinLength</b>	387-486 a.a.
<b>Description</b>	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.
<b>Form</b>	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
<b>Molecular Mass</b>	36.74 kDa
<b>AA Sequence</b>	NPNFKRICTGNESLEENYVQDSKMGFVINAIYAMAHLQNMHHALCPGHVGLCDAM

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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,

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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;

