

Recombinant Human GRM5 Protein, GST-tagged

Cat. No. GRM5-5368H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human GRM5 partial ORF (NP_000833, 419 a.a. - 518 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	Wheat Germ
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]
Molecular Mass	36.74 kDa
AA Sequence	CPGYAGLCDAMKPIDGRKLLLESLMKTNFTGVSGDTILFDENGDSPGRYEIMNFKEM GKDYFDYINVGSWDNGELKMDDDEVWSKKSNIIRSVCSEPCKEG

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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.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

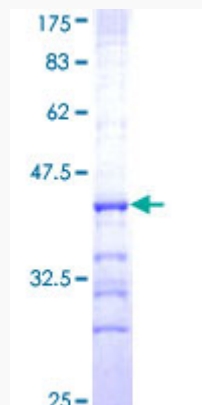
Gene Name	GRM5 glutamate receptor, metabotropic 5 [Homo sapiens]
Official Symbol	GRM5
Synonyms	GRM5; glutamate receptor, metabotropic 5; metabotropic glutamate receptor 5; GPRC1E; mGlu5; MGLUR5; metabotropic glutamate receptor 5 variant F; metabotropic glutamate receptor 5 variant G; metabotropic glutamate receptor 5 variant H;
Gene ID	2915
mRNA Refseq	NM_000842
Protein Refseq	NP_000833
MIM	604102
UniProt ID	P41594

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**Quality Control
Testing**



12.5% SDS-PAGE Stained with Coomassie Blue.

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