

# Recombinant Full Length Human GRM7 Protein, GST-tagged

**Cat. No.** GRM7-5596HF    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
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| <b>Product Overview</b> | Human GRM7 full-length ORF ( NP_000835.1, 1 a.a. - 915 a.a.) recombinant protein with GST-tag at N-terminal.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Source</b>           | In Vitro Cell Free System                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>ProteinLength</b>    | 915 amino acids                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Description</b>      | L-glutamate is the major excitatory neurotransmitter in the central nervous system, and it 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 three 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] |
| <b>Molecular Mass</b>   | 128.7 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>AA Sequence</b>      | MVQLRKLLRVLTLMKFPCCVLEVLLCALAAAARGQEMYAPHSIRIEGDVTLGGLFPV                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

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HAKGPSGVPCGDIKRENGIHRLEAMLYALDQINSDPNLLPNVTLGARILDTC SRDTYA  
LEQSLTFVQALIQKDTSDVRCTNGEPPVFVKPEKVVGVIGASGSSVSIMVANILRLFQI  
PQISYASTAPELSDDRRYDFFSRVVPDSFQAQAMVDIVKALGWNVSTLASEGSY  
GEKGVESFTQISKEAGGLCIAQSVRIPQERKDRTIDFDRIIKQLLDTPNSRAVVIFAND  
EDIKQILAAAKRADQVGHFLWVGSDSWGSKINPLHQHEDIAEGAITIQPKRATVEGFD  
AYFTSRTLENNRRNVWFAEYWEENFNCKLTISGSKKEDTDRKCTGQERIGKDSNYE  
QEGKVQFVIDAVYAMAHALHMHMNDLCADYRGVCPHEMEQAGGKKLLKYIRNVNFN  
GSAGTPVMFNKNGDAPGRYDIFQYQTTNTSNPGYRLIGQWTDLQNLIEDMQWGK  
GVREIPASVCTLPCPKPGQRKKTQKGTGCCWTCEPCDGYQYQFDEMTQCQHCPYDQ  
RPNENRTGCQDIIKLEWHSPWAVIPVFLAMLGIIATIFVMATFIRYNDTPIVRASGRE  
LSYVLLTGIFLCYIITFLMIAKPDVAVCSFRRVFLGLGMCISYAALLTKTNRIYRIFEQ GK  
KSVTAPRLISPTSQLAITSSLISVQLLGVFIWFGVDPPNIIIDYDEHKT MNPEQARGVLK  
CDITDLQIICSLGYSILLMTCTVYAIKTRGV PENFNEAKPIGFTMYTTCIVWLAFIPIFF  
GTAQSAEKLYIQTTTLTISMNLSASVALGMLYMPKVYIIIFHPELNVQKRKRSFKAVVT  
AATMSSRLSHKPSDRPNGEAKTELCENVDPNSPAKKKYVSYNNLVI

**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**

GRM7 glutamate receptor, metabotropic 7 [ Homo sapiens ]

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|------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| <b>Official Symbol</b> | GRM7                                                                                                                        |
| <b>Synonyms</b>        | GRM7; glutamate receptor, metabotropic 7; metabotropic glutamate receptor 7; GLUR7; GPRC1G; mGlu7; MGLUR7; MGLU7; FLJ40498; |
| <b>Gene ID</b>         | 2917                                                                                                                        |
| <b>mRNA Refseq</b>     | NM_000844                                                                                                                   |
| <b>Protein Refseq</b>  | NP_000835                                                                                                                   |
| <b>MIM</b>             | 604101                                                                                                                      |
| <b>UniProt ID</b>      | Q14831                                                                                                                      |

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