

Recombinant Full Length Human GRM7 Protein

Cat. No. GRM7-5593HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human GRM7 full-length ORF (NP_000835.1) recombinant protein without tag.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	613 amino acids
Description	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]
Form	Liquid
Molecular Mass	102.3 kDa

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AA Sequence

MVQLRKLLRVLTLMKFPCCVLEVLLCALAAAARGQEMYAPHSIRIEGDVTLGGLFPV
 HAKGPSGVPCGDIKRENGIHRLEAMLYALDQINSDPNLLPNVTLGARILDTCSRDTYA
 LEQSLTFVQALIQKDTSDVRCTNGEPPVFVKPEKVVGVIGASGSSVSIMVANILRLFQI
 PQISYASTAPELSDDRRYDFFSRVPPDSFQAQAMVDIVKALGWNYVSTLASEGSY
 GEKGVESFTQISKEAGGLCIAQSVRIPQERKDRTIDFDRIIKQLLDTPNRAVVIFAND
 EDIKQILAAAKRADQVGHFLWVGSDSWGSKINPLHQHEDIAEGAITIQPKRATVEGFD
 AYFTSRTLNNRRNVWFAEYWEENFNCKLTISGSKKEDTRKCTGQERIGKDSNYE
 QEGKVQFVIDAVYAMAHALHHMNKDLCADYRGVCPMEQAGGKKLLKYIRNVNFN
 GSAGTPVMFNKNGDAPGRYDIFQYQTTNTSNPGYRLIGQWTDELQLNIEDMQWGK
 GVREIPASVCTLPCPGQRKKTQKGTGCCWTCEPCDGYQYQFDEMTCQHCPYDQ
 RPNENRTGCQDIPIIKLEWHSPWAVIPVFLAMLGIIATIFVMATFIRYNDTPIVRASGRE
 LSYVLLTGIFLCYIITFLMIAKPDVAVCSFRRVFLGLGMCISYAALLTKTNRIYRIFEQ GK
 KSVTAPRLISPTSQLAITSSLISVQLLGVFIWFGVDPPNIIIDYDEHKTMNPEQARGVLK
 CDITDLQIICSLGYSILLMTCTVYAIKTRGVPENFNEAKPIGFTMYTTCIVWLAFIPIFF
 GTAQSAEKLYIQTTTLTISMNLSASVALGMLYMPKVYIIIFHPELNVQKRKRSFKAVVT
 AATMSSRLSHKPSDRPNGEAKTELCENVDPNSPAAKKKYVSYNNLVI

Applications

Antibody Production
 Functional Study
 Compound Screening

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

25 mM Tris-HCl of pH8.0 containing 2% glycerol.

GENE INFORMATION
Gene Name

GRM7 glutamate receptor, metabotropic 7 [Homo sapiens]

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

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