

## Recombinant Full Length Human GRM4 Protein

Cat. No. GRM4-5586HF Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Human GRM4 full-length ORF (ADR83416.1) recombinant protein without tag.
<b>Species</b>	Human
<b>Source</b>	In Vitro Cell Free System
<b>ProteinLength</b>	576 amino acids
<b>Description</b>	<p>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. [provided by RefSeq]</p>
<b>Form</b>	Liquid
<b>Molecular Mass</b>	100.4 kDa
<b>AA Sequence</b>	MPGKRGLGWWWARLPLCLLLSLYGPWMPSSLGKPKGHPHMNSIRIDGDITLGGFL

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PVHGRGSEGKPCGELKKEKGIHRLEAMLFALDRINNDPDLNITLGARILDTC SRDT  
 HALEQSLTFVQALIEKDGTEVRCGSGGPPITKPERVVG VIGASGSSVSIMVANILRLF  
 KIPQISYASTAPDLSDNSRYDFFSRVVPSDTYQAQAMVDIVRALKWNYVSTVASEGS  
 YGESGVEAFIQKSREDGGVCI AQSVKIPREPKAGEFDKIIRLLET SNARAVIIFANED  
 DIRRVLEAARRANQTGHFFWMGSDSWGSKIAPVLHLEEVAEGAVTILPKRMSVRGF  
 DRYFSSRTL DNNRRNIWFAEFWEDNFHCKLSRHALKKGS HVKCTNRERIGQDSAY  
 EQEGKVQFVIDAVYAMGHALHAMHRDLCPGRVGLCPRMDPVDGTQLLKYIRNVNF  
 SGIAGNPVTFNENGDAPGRYDIYQYQLRND SAEYKVIGSWTDHLHLRIERMHWPGS  
 GQQLPRSICSLPCQPGERKKT VKGMPCCWHCEPCTGYQYQVDRYTCKTCPYDMR  
 PTENRTGCRPIPIIKLEWGSPWAVLPLFLAVV GIIATLFVVITFVRYNDTPIVKASGREL  
 SYVLLAGIFLCYATTFLMIAEPDLGTCSLRRIFLGLGMSISYAALLTKTNRIYRIFEQ GK  
 RSVSAPRFISPASQLAITFSLISLQLLGICVWFVDP SHSVVDFQDQRTLDP RFARGV  
 LKCDISDLSLICLLGYSMLLMVTCTVYAIKTRGVPETFNEAKPIGFTMYTTCIVWLA FIP  
 IFFGTSQSADKLYIQTTTLTVSVLSASVSLGMLYMPKVYIILFHPEQNVPKRKRSLKA  
 VVTAATMSNKFTQKGNFRPNGEAKSEL CENLEAPALATKQTYVVTYTNHAI

**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**

GRM4 glutamate receptor, metabotropic 4 [ Homo sapiens ]

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<b>Official Symbol</b>	GRM4
<b>Synonyms</b>	GRM4; glutamate receptor, metabotropic 4; metabotropic glutamate receptor 4; GPRC1D; mGlu4; MGLUR4; MGC177594;
<b>Gene ID</b>	2914
<b>mRNA Refseq</b>	NM_000841
<b>Protein Refseq</b>	NP_000832
<b>MIM</b>	604100
<b>UniProt ID</b>	Q14833

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