

Recombinant Human GRM4 Protein

Cat. No. GRM4-5367H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human GRM4 full-length ORF (ADR83416.1) recombinant protein without tag.
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. [provided by RefSeq]
Form	Liquid
Molecular Mass	100.4 kDa
AA Sequence	MPGKRGLGWWWARLPLCLLLSLYGPWMPSSLGKPKGHPHMNSIRIDGDITLGGLF PVHGRGSEGKPCGELKKEKGIHRLEAMLFALDRINNDPDLNITLGARILDTC SRDT HALEQSLTFVQALIEKDGTEVRCGSGGPPIITKPERVVG VIGASGSSVSIMVANILRLF

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KIPQISYASTAPDLSDNSRYDFFSRVVPSTYQAQAMVDIVRALKWNVSTVASEGS
 YGESGVEAFIQKSREDGGVCIAQSVKIPREPKAGEFDKIIRRLLETSNARAVIIFANED
 DIRRVLEAARRANQTGHFFWMGSDSWGSKIAPVLHLEEVAEGAVTILPKRMSVRGF
 DRYFSSRTLDDNNRRNIWFAEFWEDNFHCKLSRHALKKGSHVKKCTNRERIGQDSAY
 EQEGKVQFVIDAVYAMGHALHAMHRDLCPGRVGLCPRMDPVDGTQLLKYIRNVNF
 SGIAGNPVTFNENGDAPEGRYDIYQYQLRNDSEYKVIGSWTDHLHLRIERMHWPGS
 GQQLPRSICSLPCQPGERKKTVMGMPCCWHCEPCTGYQYQVDRYTCKTCPYDMR
 PTENRTGCRPIPIIKLEWGSPWAVLPLFLAVVGIAATLFVVITFVRYNDTPIVKASGREL
 SYVLLAGIFLCYATTFLMIAEPDLGTCSLRRIFLGLGMSISYAALLTKTNRIYRIFEQ GK
 RSVSAPRFISPASQLAITFSLISLQLLGICVWFVVDPSHVVDFQDQRTLDPRFARGV
 LKCDISDLSLICLLGYSMMLMVTCTVYAIKTRGVPETFNEAKPIGFTMYTTCIVWLAFIG
 IFFGTSQSADKLYIQTTTLTVSVLSASVSLGMLYMPKVYIILFHPEQNVPRKRSLKA
 VVTAATMSNKFTQKGNFRPNGEAKSELNLEAPALATKQTYVVTYNHAI

Applications

Antibody Production
 Functional Study
 Compound Screening

Usage

Heating may cause protein aggregation. Please do not heat this product before electrophoresis.

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

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