

Proteoliposomes

Full-Length

# GRM4 (Human) Recombinant Protein

Catalog # H00002914-G01

Size 10 ug

## Specification

### Product Description

Human GRM4 full-length ORF (ADR83416.1) recombinant protein without tag.  
This product is belong to Proteoliposome (PL).

### Sequence

MPGKRGLGWWWARLPLCLLLSLYGPWMPSSLGKPKGHPHMNSIRIDGDTLGGLFPVHGRGSEG  
KPCGELKKEKGIHRLEAMLFALDRINNDPDLNITLGARILDTCSDRTHALEQSLTFVQALIEKDGT  
EVRCSGGPPIITKPERVVGIVASGSSVSIMVANILRLFQIPQISYASTAPDLSDNSRYDFFSRVVP  
SDTYQAQAMVDIVALKWNYVSTVASEGSYGESGVEAFIQKSREDGGVCIAQSVKIPREPKAGEF  
DKIIRLLETSNARAVIIFANEDDIRRVLEAARRANQTGHFFWMGSDSWGSKIAPVLHLEEVAEGAV  
TILPKRMSVRGFDRYFSSRTLNNRRNWFAEFWEDNFHCKLSRHALKKGSHVKKCTNRERIGQD  
SAYEQEGKVQFVIDAVYAMGHALHAMHRDLCPGRVGLCPRMDPVDGTQLLK YIRNVNFSGIAGN  
PVTFNENGDAPEGRYDIYQYQLRND SAEYKVIGSWTDHLHLRIERMHWPGSGQQLPRSICSLPCQP  
GERKKT VKGMPCCWHCEPCTGYQYQVD RYTCKTCPYDMRPTENRTGCRPIPIIKLEWGSPWAVL  
PLFLAVVGIAATLFVVITFVRYNDTPVKASGRELSYVLLAGIFLCYATTFLMAEPDLGTC SLRRIFLG  
LGMSISYAALLTKTNRIRIFEQ GKRSVSAPRFISPASQLAITFSLISLQLLGICVWFVVDPSHSVVD  
QDQRTLDPRFARGVLKCDISDLSLICLLGYSMMLMVTCTVYAIKTRGVPETFNEAKPIGFTMYTTCN  
WLAFIPIFFGTSQSADKLYQTTTLTVSVLSASVSLGMLYMPKVYIILFHPEQNVPKRKRS LKAVVT  
AATMSNKFTQKGNFRPNGEAKSEL CENLEAPALATKQTYVTYTNHAI

### Host

Wheat Germ (in vitro)

### Theoretical MW (kDa)

100.4

### Interspecies Antigen Sequence

Mouse (95); Rat (97)

### Form

Liquid

### Preparation Method

[in vitro wheat germ expression system with proprietary liposome technology](#)

### Purification

None

### Recommend Usage

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

### Storage Buffer

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

### Storage Instruction

Store at -80°C. Aliquot to avoid repeated freezing and thawing.

### Note

Best use within three months from the date of receipt of this protein.

## Applications

- Antibody Production

## Gene Info — GRM4

Entrez GeneID [2914](#)

GeneBank Accession# [HQ258665.1](#)

Protein Accession# [ADR83416.1](#)

Gene Name GRM4

Gene Alias GPRC1D, MGLUR4, mGlu4

Gene Description glutamate receptor, metabotropic 4

Omim ID [604100](#)

Gene Ontology [Hyperlink](#)

**Gene Summary**

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]

**Other Designations** OTTHUMP00000016221|glutamate metabotropic receptor 4

## Pathway

- [Neuroactive ligand-receptor interaction](#)
- [Taste transduction](#)

## Disease

- [Bipolar Disorder](#)
- [Cognition](#)
- [Epilepsy](#)
- [Genetic Predisposition to Disease](#)
- [Mental Disorders](#)
- [Myoclonic Epilepsy](#)
- [Schizophrenia](#)
- [Schizophrenic Psychology](#)
- [Weight Gain](#)