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Product Information

MemDX™ Membrane Protein Human GRM3 (Glutamate metabotropic receptor 3) Full Length

Cat. No.: **MPC0186K**
This product is for research use only and is not intended for diagnostic use.

This product is a 98.8 kDa Human GRM3 membrane protein expressed in Baculovirus/Insect expression system. The protein is for research use only and is not approved for use in humans or in clinical diagnosis.

Product Specifications

Host Species
Human

Target Protein
GRM3

Protein Length
Full length

Protein Class
GPCR

Molecular Weight
98.8 kDa

TMD
7

Sequence
MKMLTRLQVLTLALFSKGFLLSLGDHNFLRREIKIEGDLVLGGLFPINEK
GTGTEECGRINEDRGIQRLEAMLFAIDEINKDDYLLPGVKLGVHILDTCS
RDTYALEQSLEFVRASLTKVDEAEYMCPDGSYAIQENIPLLIAGVIGGSY
SSVSIQVANLLRLFQIPQISYASTSAKLSDKSRYDYFARTVPPDFYQAKA
MAEILRFFNWTYVSTVASEGDYGETGIEAFEQEARLRNICIATAEKVGRS
NIRKSYDSVIRELLQKPNARVVVLFMRSDDSRELIAAASRANASFTWVAS
DGWGAQESIIKGSEHVAYGAITLELASQPVRQFDRYFQSLNPYNNHRNPW
FRDFWEQKFQCSLQNKRNHRRVCDKHLAIDSSNYEQESKIMFVVNAVYAM
AHALHKMQRTLCPNTTKLCDAMKILDGKKLYKDYLLKINFTAPFNPNKDA
DSIVKFDTFGDGMGRYNVFNFQNVGGKYSYLKVGHWAETLSLDVNSIHWS
RNSVPTSQCSDPCAPNEMKNMQPGDVCCWICIPCEPYEYLADEFTCMDCG
SGQWPTADLTGCYDLPEDYIRWEDAWAIGPVTIACLGFMCTCMVVTVFIK
HNNTPLVKASGRELCYILLFGVGLSYCMTFFFIAKPSPVICALRRLGLGS
SFAICYSALLTKTNCIARIFDGVKNGAQRPKFISPSSQVFICLGLILVQI
VMVSVWLILEAPGTRRYTLAEKRETVILKCNVKDSSMLISLTYDVILVIL
CTVYAFKTRKCPENFNEAKFIGFTMYTTCIIWLAFLPIFYVTSSDYRVQT
TTMCISVSLSGFVVLGCLFAPKVHIILFQPQKNVVTHRLHLNRFSVSGTG
TTYSQSSASTYVPTVCNGREVLDSTTSSL

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Product Description

Expression Systems

Baculovirus/Insect expression system

Tag

Based on specific requirements

Protein Format

Detergent or based on specific requirements

Form

Liquid

Storage

Aliquot and store at -20°C or lower. For long term storage, we recommend to store at -70°C or lower. Avoid freeze/thaw cycles.

Target

Target Protein

GRM3

Full Name

Glutamate metabotropic receptor 3

Introduction

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.

Alternative Names

GLUR3; mGlu3; GPRC1C; MGLUR3; glutamate receptor, metabotropic 3; GRM3; Glutamate metabotropic receptor 3

Gene ID

2913

UniProt ID

Q14832

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