

Product Information

MemDX™ Membrane Protein Human GRM6 (Glutamate metabotropic receptor 6) Full Length

Cat. No.: **MPC0189K**

This product is for research use only and is not intended for diagnostic use.

This product is a 95.4 kDa Human GRM6 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

GRM6

Protein Length

Full length

Protein Class

GPCR

Molecular Weight

95.4 kDa

TMD

7

Sequence

MARPRRAREPLLVALPLAWLAQAGLARAAGSVRLAGGLTLGGLFPVHAR
GAAGRACGQLKKEQGVHRLEAMLYALDRVNADPELLPGVRLGARLLDTCS
RDTYALEQALSFVQALIRGRGDGDEVGVRCPGGVPPLRPAPPERVVAVVG
ASASSVSIMVANVLRIFAIPQISYASTAPELSDSTRYDFFSRVPPDSYQ
AQAMVDIVRALGWNYVSTLASEGNYGESGVEAFVQISREAGGVCIAQSIK
IPREPKPGEFSKVIRRLMETPNARGIIIFANEDDIRRVLEAARQANLTGH
FLWVGSDSWGAKTSPILSLEDVAVGAITILPKRASIDGFDQYFMTRLEN
NRRNIWFAEFWEENFNCKLTSSGTQSDDSTRKCTGEERIGRDSTYEQEGK
VQFVIDAVYIAHALHSMHQALCPGHTGLCPAMEPTDGRMLLQYIRAVRF
NGSAGTPVMFNENGDAPEGRYDIFQYQATNGSASSGGYQAVGQWAETLRD
VEALQWSDGPHEVPSSLCSLPCGPGERKKMVKGVPCCWHCEACDGYRFQV
DEFTCEACPGDMRPTPNHTGCRPTPVVRLSWSSPWAAPPLLLAVLGIVAT
TTVVATFVRYNNTPIVRASGRELSYVLLTGIFLIYAITFLMVAEPGAAVC
AARRLFLGLGTTLSYSALLTKTNRIYRIFEQGKRSVTPPPFIPTSQLVI
TFLTSLQVVGMIAWLGARPPHSVIDYEEQRTVDPEQARGVLKCDMSDLS
LIGCLGYSLLLMVTCTVYAIKARGVPETFNEAKPIGFTMYTTCIIWLAFV
PIFFGTAQSAEKIYIQTTLTVSLSLASVSLGMLYVPKTYVILFHPEQN
VQKRKRSLKATSTVAAPPKGEDAEAHK

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

GRM6

Full Name

Glutamate metabotropic receptor 6

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. Mutations in this gene result in congenital stationary night blindness type 1B.

Alternative Names

mGlu6; CSNB1B; GPRC1F; MGLUR6; glutamate receptor, metabotropic 6; GRM6; Glutamate metabotropic receptor 6

Gene ID

[2916](#)

UniProt ID

[O15303](#)