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Product Information

MemDX™ Membrane Protein Human GRM4 (Glutamate metabotropic receptor 4) Expressed in CHO for Antibody Discovery, Partial (33-518aa)

Cat. No.: **MPX0043K**
This product is for research use only and is not intended for diagnostic use.

This product is a 55 kDa Human GRM4 membrane protein expressed in CHO. 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
GRM4

Protein Length
Partial (33-518aa)

Protein Class
GPCR

Molecular Weight
55 kDa

TMD
7

Sequence
KPKGHPHMNSIRIDGDIT
LGGLFPVHGRGSEGKPCGELKKEKGIHRLEAMLFALDRINNDPDLLPNIT
LGARILDTCSRDTHALEQSLTFVQALIEKDGTEVRCGSGGPPIITKPERV
VGVIGASGSSVSIMVANILRLFKIPQISYASTAPDLSDNSRYDFFSRVVP
SDTYQAQAMVDIVRALKWNYVSTVASEGSYGESGVEAFIQKSREDGGVCI
AQSVKIPREPKAGEFDKIIRRLLETSNARAVIIFANEDDIRRVLEAARRA
NQTGHFFWMGSDSWGSKIAPVLHLEEVAEGAVTILPKRMSVRGFDRYFSS
RTLDNNRRNIWFAEFWEDNFHCKLSRHALKKGSHVKKCTNRERIGQDSAY
EQEGKVQFVIDAVYAMGHALHAMHRDLCPGRVGLCPRMDPVDGTQLLKYI
RNVNFSGIAGNPVTFNENGDAPGRYDIYQYQLRNDSAEYKVIGSWTDHLH
LRIERMHWPGSGQQLPRS

Product Description

Expression Systems
CHO

Tag

6xHis tag at the C-terminus

Protein Format

Soluble

Form

LYOPH

Reconstitution

Reconstitute at 250 μg/mL in PBS.

Endotoxin

<0.1 EU/μg by the LAL method

Purity

>95%, by SDS-PAGE visualized with Silver Staining and quantitative densitometry by Coomassie® Blue Staining.

Buffer

Lyophilized from a 0.2 μm filtered solution in PBS.

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

GRM4

Full Name

Glutamate metabotropic receptor 4

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. Several transcript variants encoding different isoforms have been found for this gene.

Alternative Names

mGlu4; GPRC1D; MGLUR4; glutamate receptor, metabotropic 4; GRM4; Glutamate metabotropic receptor 4

Gene ID

2914

UniProt ID

Q14833