

## Product Information

### **MemDX™ Membrane Protein Human GRM7 (Glutamate metabotropic receptor 7) Expressed in CHO for Antibody Discovery, Partial (35-521aa)**

Cat. No.: **MPX0045K**

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

This product is a 55 kDa Human GRM7 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

GRM7

##### Protein Length

Partial (35-521aa)

##### Protein Class

GPCR

##### Molecular Weight

55 kDa

##### TMD

7

##### Sequence

QEMYAPHSIRIEGDVT  
LGGLFPVHAKGPSGVPCGDIKRENGIHRLEAMLYALDQINSDPNLLPNVT  
LGARILDTCSRDTYALEQSLTFVQALIQKDTSDVRCTNGEPPVFVKPEKV  
VGVIGASGSSVSIMVANILRLFQIPQISYASTAPELSDDRRYDFFSRVVP  
PDSFQAQAMVDIVKALGWNVYSTLASEGSYGEKGVESFTQISKEAGGLCI  
AQSVRIPQERKDRTIDFDRIKQLLDTPNSRAVVIFANDEDIKQILAAK  
RADQVGHFLWVGSDSWGSKINPLHQHEDIAEGAITIQPKRATVEGFDAYF  
TSRTLENNRRNVWFAEYWEENFNCKLTISGSKKEDTRKCTGQERIGKDS  
NYEQEGKVQFVIDAVYAMAHALHMHMNKDLCADYRGVCPHEMEQAGGKLLK  
YIRNVNFNGSAGTPVMFNKNGDAPGRYDIFQYQTTNTSNPGYRLIGQWTD  
ELQLNIEDMQWGKGVREIPAS

#### Product Description

##### Expression Systems

CHO

**Tag**

6xHis tag at the C-terminus

**Protein Format**

Soluble

**Form**

LYOPH

**Reconstitution**

Reconstitute at 500 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**

GRM7

**Full Name**

Glutamate metabotropic receptor 7

**Introduction**

L-glutamate is the major excitatory neurotransmitter in the central nervous system, and it 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 three 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. Multiple transcript variants encoding different isoforms have been found for this gene.

**Alternative Names**

GLUR7; MGLU7; GPRC1G; MGLUR7; NEDSHBA; PPP1R87; glutamate receptor, metabotropic 7; protein phosphatase 1, regulatory subunit 87; GRM7; Glutamate metabotropic receptor 7

**Gene ID**

[2917](#)

**UniProt ID**

[Q14831](#)