

## GRM5 Protein, Human, Recombinant (His &amp; Myc)

## General Information

Synonyms: GRM5;mGluR5;GPRC1E;Metabotropic glutamate receptor 5

Protein Construction: 22-580 aa

Species: Human

Expression Host: E. coli

Accession: P41594

Molecular Weight: 70.6 kDa (predicted)

AA Sequence: SSERRVVAHMPGDIIIGALFSVHHQPTVDKVERKCGAVREQYGIQRVEAMLHTLERINSDPTLLPNITLGCEIR  
DSCWHSVAVALEQSIEFIRDLSLISSEEEGLVRCVDGSSSSFRSKKPIVGVIGPGSSSVAIQVQNLLQLFNIPQIAY  
SATSMDLSDKTLFKYFMRVVPDAQQARAMVDIVKRYNWTYVSAVHTEGNYGESGMEAFKDMAKEGICIA  
HSYKIYSNAGEQSFDKLLKLTSHLPKARVVACFCEGMTVRGLLMAMRRLGLAGEFLLGSDGWADRYDVTD  
GYQREAVGGITIKLQSPDVKWFDDYYLKRPELNHRNPWFQEFWQHRFQCRLEGFPQENSKYNKTCNSSLTL  
KTHHVQDSKMGFVINAIYSMAYGLHNMQMSLCPGYAGLCDAMKPIDGRKLLLESLMKTNFTGVSGDTILFDEN  
GDSPGRYEIMNFKEMGKDYFDYINVGSWDNGELKMDDDEVWSSKKSNIIRSVCEPCEKQIKVIRKGEVSSC  
WTCTPCKENEYVFDEYTCKACQLGSWPTDDLGTCDLIPVQYLRWGDPEP

## QC Testing

Biological Activity: Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.

Purity: > 85% as determined by SDS-PAGE.

Endotoxin: < 1.0 EU/μg of the protein as determined by the LAL method.

Formulation: Tris-based buffer, 50% glycerol

## Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

*Actual storage temperature shall be subject to the COA.*

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

## Protein Background

## A DRUG SCREENING EXPERT

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G-protein coupled receptor for glutamate. Ligand binding causes a conformation change that triggers signaling via guanine nucleotide-binding proteins (G proteins) and modulates the activity of down-stream effectors. Signaling activates a phosphatidylinositol-calcium second messenger system and generates a calcium-activated chloride current. Plays an important role in the regulation of synaptic plasticity and the modulation of the neural network activity.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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