

# Recombinant Human GRM5 Protein (P569-K678, E579A, N667Y, I669A, G675M, K679-A836, T742A, S753A), Flag, His tagged

**Cat. No.** GRM5-0501H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Human GRM5(P569-K678) (E579A, N667Y, I669A, G675M)-T4L-GRM5(K679-A836) (T742A, S753A)-10His Protein was expressed in Insect cell.                                                                                                                                                                                                                                                                                                                              |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Source</b>           | Insect Cells                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>ProteinLength</b>    | P569-K678, E579A, N667Y, I669A, G675M, K679-A836, T742A, S753A                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Description</b>      | 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. |
| <b>Form</b>             | Liquid                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Endotoxin</b>        | < 0.01 EU per µg of the protein                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Purity</b>           | 90%                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Stability</b>        | Samples are stable for up to twelve months from date of receipt at -20 to -80                                                                                                                                                                                                                                                                                                                                                                                              |

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|                       |                                                                                                                                                                     |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                       | centigrade.                                                                                                                                                         |
| <b>Storage</b>        | Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. |
| <b>Storage Buffer</b> | 50 mM Tris-HCl (pH7.5), 200 mM NaCl, 20% glycerol                                                                                                                   |
| <b>Shipping</b>       | It is shipped out with blue ice.                                                                                                                                    |

## GENE INFORMATION

|                        |                                                                                                                                                                                                                                            |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | GRM5 glutamate receptor, metabotropic 5 [ Homo sapiens (human) ]                                                                                                                                                                           |
| <b>Official Symbol</b> | GRM5                                                                                                                                                                                                                                       |
| <b>Synonyms</b>        | GRM5; glutamate receptor, metabotropic 5; metabotropic glutamate receptor 5; GPRC1E; mGlu5; MGLUR5; metabotropic glutamate receptor 5 variant F; metabotropic glutamate receptor 5 variant G; metabotropic glutamate receptor 5 variant H; |
| <b>Gene ID</b>         | 2915                                                                                                                                                                                                                                       |
| <b>mRNA Refseq</b>     | NM_000842                                                                                                                                                                                                                                  |
| <b>Protein Refseq</b>  | NP_000833                                                                                                                                                                                                                                  |
| <b>MIM</b>             | 604102                                                                                                                                                                                                                                     |
| <b>UniProt ID</b>      | P41594                                                                                                                                                                                                                                     |

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