### PRODUCT INFORMATION

**Catalog Number:** CG1190  
**Lot Number:** CG1190-111409  
**Quantity:** 1 vial (2 x 10^6) frozen cells  
**Freeze Medium:** Sigma Freezing Medium (C-6164)  
**Host cell:** HEK293T GoqI5  
**Transfection:** Expression vector containing full-length human GRM3 cDNA (GenBank Accession Number NM_000840) with FLAG tag sequence at N-terminus  
**Recommended Storage:** Liquid nitrogen upon receiving  
**Propagation Medium:** DMEM with GlutaMAX (Gibco 10566), 10% FBS (dialyzed), 2 mM sodium pyruvate, 250 μg/mL hygromycin, 1 μg/mL puromycin  
**Stability:** Stable after two months continuous growth

### Data sheet

**Background:** Metabotropic glutamate receptor mGluR3 is a G protein-coupled receptor for glutamate. Glutamate is the major excitatory neurotransmitter in the mammalian central nervous system and functions to regulate excitability via pre- and postsynaptic mechanisms. The mGluR3 receptor is widely expressed in glial cells but also shows discrete localization both pre- and postsynaptic on glutamatergic and other neurotransmitter synapses. It is also expressed within forebrain regions including hippocampus and thalamus. Agonists of mGluR3 have been shown to suppress enhanced glutamatergic excitations in brain synapses known to be involved in the expression of fear/anxiety in animals and humans. It is anticipated that mGluR3 receptor represent a promising new target for treatment of anxiety and stress-related disorders in humans.

**Application:** Functional assays

**Figure 1**

![Graph showing EC50 = 1.7x10^-7 M](image)

**Figure 2**

![Flow cytometry graph](image)

**Figure 1.** Dose-dependent calcium flux upon treatment with ligand, monitored with FlexStation. **Figure 2.** Receptor expression on cell surface measured by flow cytometry (FACS) using an anti-FLAG antibody. Thin line: parental cells; thick line: receptor-expressing cells.

**References:**


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