

# MULTISCREEN<sup>TM</sup> STABLE CELL LINE HUMAN RECOMBINANT MGLUR4 RECEPTOR

### **PRODUCT INFORMATION**

Catalog Number: CG1191a

Lot Number: CG1191a-021821

Quantity: 1 vial (2 x 106) frozen cells

Freeze Medium: Cellbanker 2

Host cell: HEK293T Gaqi5

**Transfection:** Expression vector containing full-length human GRM4 cDNA (GenBank Accession Number X80818) with FLAG tag sequence at Nterminus

Recommended Storage: Liquid nitrogen upon receiving

**Propagation Medium:** DMEM with GlutaMAX (Gibco 10566), 10% FBS (dialyzed), 2 mM sodium pyruvate, 50 µg/mL hygromycin, 1 µg/mL puromycin

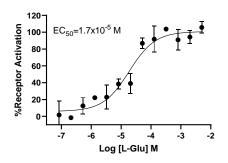
**Stability:** Stable for a minimum of 2 months in continuous culture

## Data sheet

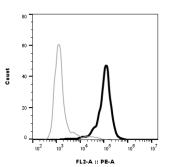
**Background:** L-glutamate is the major excitatory neurotransmitter in the central nervous system and activates both ionotropic and metabotropic glutamate receptors. The metabotropic glutamate receptors (mGluRs), which are G protein-coupled receptors, have been divided into 3 groups on the basis of sequence homology, putative signal transduction mechanisms, and pharmacologic properties. Group II and group III mGluRs are linked to the inhibition of the cyclic AMP cascade, but differ in their agonist selectivity. Group III agonists include L-2-amino-4-phosphonobutyrate (L-AP4) and L-serine-O-phosphate (Wu et al., 1998).



### Figure 1







**Figure 1.** Dose-dependent stimulation of calcium flux upon treatment with ligand, measured with MULTISCREEN<sup>™</sup> Calcium 1.0 No Wash Assay Kit (Multispan MSCA01). **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:**

Wu *et al.* (1998) Group III human metabotropic glutamate receptors 4, 7 and 8: molecular cloning, functional expression, and comparison of pharmacological properties in RGT cells. *Mol Brain Res* 53:88 97.

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