MULTISCREEN™ STABLE CELL LINE
HUMAN RECOMBINANT 5-HT2C RECEPTOR

Data sheet

PRODUCT INFORMATION

Catalog Number: C1326-1

Lot Number: C1326-1-031709

Quantity: 1 vial (2 x 10^6) frozen cells

Freeze Medium: Sigma Freezing Medium (C-6164)

Host cell: CHO-K1

Transfection: Full-length Human HTR2C cDNA (GenBank Accession Number NM_000868) with FLAG-tag sequence at the N-terminus

Recommended Storage: Liquid nitrogen upon receiving

Propagation Medium: DMEM/F12, 10% FBS, 10 μg/mL puromycin

Stability: Stable after minimum of two months continuous growth

Background: 5-HT2C (5-hydroxytryptamine receptor 2C) is a receptor for serotonin. It is expressed in the brain and spinal cord, especially the choroid plexus. 5-HT2C receptor agonists may have important clinical value in the treatment of mental and eating disorders, such as depression, panic anxiety, OCD, bulimia and obesity.

Application: Functional assays

Figure 1

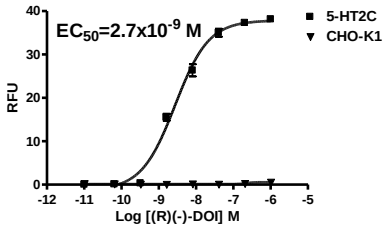

Figure 2

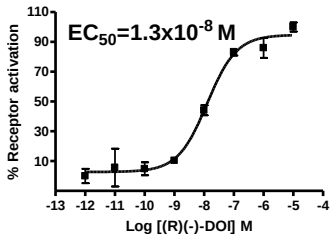

Figure 1. Dose-dependent stimulation of calcium flux upon treatment with ligand, measured with Multiscreen™ Calcium 1.0 No Wash Assay Kit (Multispan MSCA01). **Figure 2**. Dose-dependent stimulation of intracellular IP1 accumulation upon treatment with ligand, measured with IP-one Tb kit (Cisbio 62IPAPEC).

References:

Martin *et al*. (1998) 5-HT2C receptor agonists: Pharmacological characteristics and therapeutic potential. *J Pharmacol Exp Ther* 286:913-924.

Ni and Miledi (1997) Blockage of 5HT2C serotonin receptors by fluoxetine (Prozac). *Proc Natl Acad Sci USA* 94:2036-2040.

Porter *et al*. (1999) Functional characterization of agonists at recombinant human 5-HT2A, 5-HT2B, and 5-HT2C receptors in CHO-K1 cells. *Br J Pharmacol* 128:13-20.

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