MULTISCREEN™ STABLE CELL LINE
HUMAN RECOMBINANT MT1 RECEPTOR

PRODUCT INFORMATION
Catalog Number: C1223-1
Lot Number: C1223-1-021309
Quantity: 1 vial (2 x 10^6) frozen cells
Freeze Medium: Sigma Freezing Medium (C-6164)
Host cell: CHO-K1
Transfection: Full-length Human MTNR1A cDNA (GenBank Accession Number NM_005958) 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 in culture for minimum of two months

Data sheet

Background: MT1 (Melatonin receptor 1A, previously Mel 1A or ML 1A) is a receptor for melatonin. Melatonin is synthesized mainly in the pineal gland but is also made by other organs, such as the retina and the stomach. It is essential to the regulation of the mammalian circadian system and reproductive function. Melatonin receptor agonists may also be useful as a supplement to classical antidepressant treatments.

Application: Functional assays

Figure 1

**Figure 1.** Dose-dependent stimulation of 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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