**PRODUCT INFORMATION**

**Catalog Number:** C1319  
**Lot Number:** C1319-042310  
**Quantity:** 1 vial (2 x 10^6) frozen cells  
**Freeze Medium:** Sigma Freezing Medium (C-6164)  
**Host cell:** HEK293T  
**Transfection:** Expression vector containing full-length human HTR1A cDNA (GenBank accession number NM_000524.2) with FLAG tag sequence at N-terminus  
**Recommended Storage:** Liquid nitrogen upon receiving  
**Propagation Medium:** DMEM, 10% FBS, 1 μg/mL puromycin  
**Stability:** Stable in culture for minimum of two months

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**Data sheet**

**Background:** The human serotonin receptor 5-HT1A is a G protein-coupled receptor. 5-HT1A receptors can be found mainly in the cerebral cortex, hippocampus, septum, amygdala, and raphe nucelus, with lesser amounts in the basal ganglia and thalamus. 5-HT1A ligands may prove to be therapeutic in the treatment of various disorders such as depression, anxiety, and schizophrenia.

**Application:** Functional assays

**Figure 1**

![Figure 1](image1)

**Figure 2**

![Figure 2](image2)

**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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