



protein, G $\alpha$ 15, and lacking endogenous expression of 5-HT<sub>1A</sub>.

**TRANSFECTION:** Full-length human HTR1A cDNA encoding for the 5-HT<sub>1A</sub> Serotonin Receptor (Accession Number: NM\_000524)

**GROWTH MEDIA:** RPMI containing 4.5 g/L glucose/10% heat inactivated, dialyzed fetal bovine serum/0.8 mg/ml Geneticin (G418)/100 U/ml each penicillin and streptomycin, containing 1:100 dilution of Chem-3 Growth Supplement (Chemicon catalog # HTSCHEM-3S).

*Note: Dialyzed serum is recommended for the growth media because undialyzed serum contains serotonin that can cause desensitization of the receptor.*

**PRESENTATION:**

Cells are frozen at 2 x 10<sup>6</sup> cells/mL in RPMI/20% fetal bovine serum/100 U/ml penicillin and streptomycin/10% DMSO. Cell line tests negative for mycoplasma.

**STORAGE/HANDLING:**

Place cells in liquid nitrogen immediately upon receipt. Maintain frozen in liquid nitrogen for up to 5 years. Thaw cells rapidly by removing from liquid nitrogen and immediately immersing in a 37°C water bath. Immediately after ice has thawed, sterilize the exterior of the vial with 70% ethanol. Transfer contents of the vial to a sterile conical tube containing 10 mL growth media, and centrifuge at 200 x g. Remove supernatant and resuspend in fresh growth media. Transfer to a T75 flask containing 20 mL final volume growth media. Cells should be maintained between 0.1 x 10<sup>6</sup> and 1.0 x 10<sup>6</sup> cells/mL, and are typically passaged 1:10 every 3-4 days. Cells should be passaged at least once after thawing prior to use in calcium flux assays.

**REFERENCES:**

Albert PR and Lemonde S (2004) 5-HT<sub>1A</sub> receptors, gene repression, and depression: guilt by association. *Neuroscientist* 10: 575-93.

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Hoyer D et al. (1994) International Union of Pharmacology classification of receptors for 5-hydroxytryptamine (Serotonin). *Pharmacol. Rev.* 46: 157 - 203.

Toth M (2003) 5-HT<sub>1A</sub> receptor knockout mouse as a genetic model of anxiety. *Eur. J. Pharmacol.* 463: 177-84.

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