DATA SHEET

CELL LINE DESIGNATION	Cannabinoid Receptor 2 cell line (CB-80300-225)
ORIGIN (PARENTAL CELL)	HEK 293-CNG cell (CB-80200-200)
GENE INTRODUCED	Genbank Locus ID 1269
RECEPTOR INTRODUCED:	Human Cannabinoid receptor 2 (NCBI protein database NP_001832 with SNP at amino acid position 63)

USAGE

- cAMP assay for Gi-coupled human Cannabinoid Receptor 2 (CB2).
- HEK293-CNG cells (CB-80200-200) without transfected Cannabinoid Receptor 2 are used as a negative control.

QUALITY CONTROL

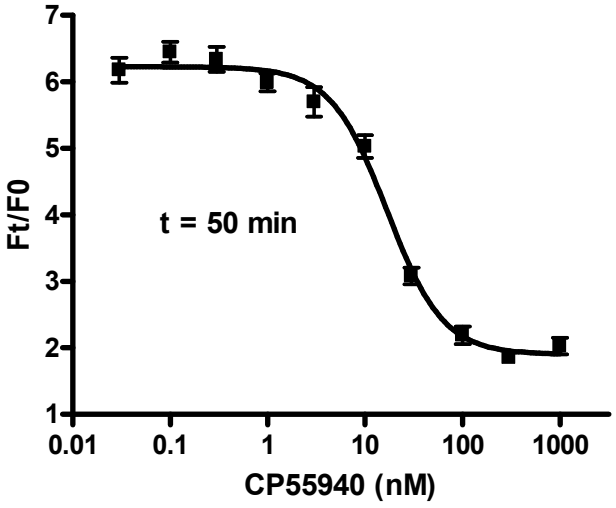
1. This cell line has been tested negative for *Mycoplasma sp.*
2. This cell line has been tested positive for Cannabinoid Receptor 2 specific response.
3. Surviving rate: More than 2.5 million/vial on the second day after thawing.
4. The receptor specific activity is stable for 10 weeks continuous passage.

CELL CULTURE CONDITION

1. Growth medium: 90% DMEM, 10% FBS, 250 μg/ml G418 and 1 μg/ml puromycin
2. Freezing medium: 10% DMSO, 90% FBS

DATA EXAMPLE

A



B

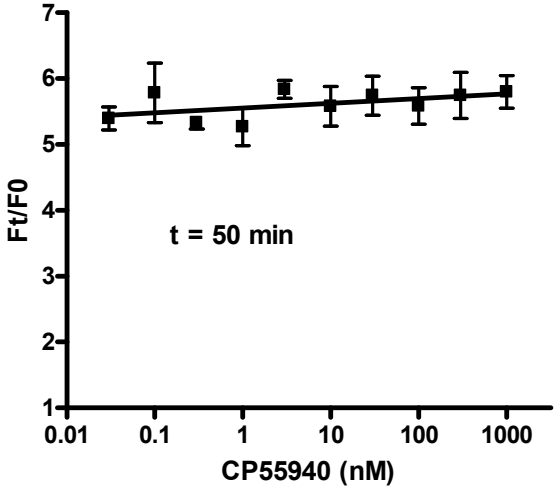


Figure 1. Response of ACT*One* CB2 cell line & parental cell line to CP-55940.

ACT*One* CB2 cells and parental cells (CB-80200-200) were plated overnight in 20 μl culture medium on a BD Biocoat 384 well plate. The next day, cells were dye-loaded with 20 μl/well of 1X Dye-loading solution (ACT*One* Membrane Potential Assay Kit). After 2 hours of incubation at room temperature, two readings were obtained prior to and 50 min after the addition of CP-55940. Ratios of the two readings (F/F0) are plotted in the figure.

A. Dose response curve of CP-55940 in ACT*One* CB2 cell line. EC50 = 16.7 nM in the presence of 25 μM of PDE inhibitor Ro20-1724 and 250 nM of adenosine A2b receptor agonist NECA.

B. Parental cells do not respond to CP-55940.