

## DATA SHEET

<b>Catalog #</b>	AG-10300-225
<b>Cell Line Designation</b>	Cannabinoid Receptor 2 cell line
<b>Parental Cell</b>	HEK 293-CNG cell (AG-10200-200)
<b>Gene Introduced</b>	Human Cannabinoid Receptor 2 (CB2)
<b>NCBI Accession #</b>	NP_001832 (SNP at amino acid position 63)

### USAGE

- cAMP assay for Gi-coupled human Cannabinoid Receptor 2 (CB2).
- HEK293-CNG cells (AG-10200-200) without transfected Cannabinoid Receptor 2 are used as a negative control.

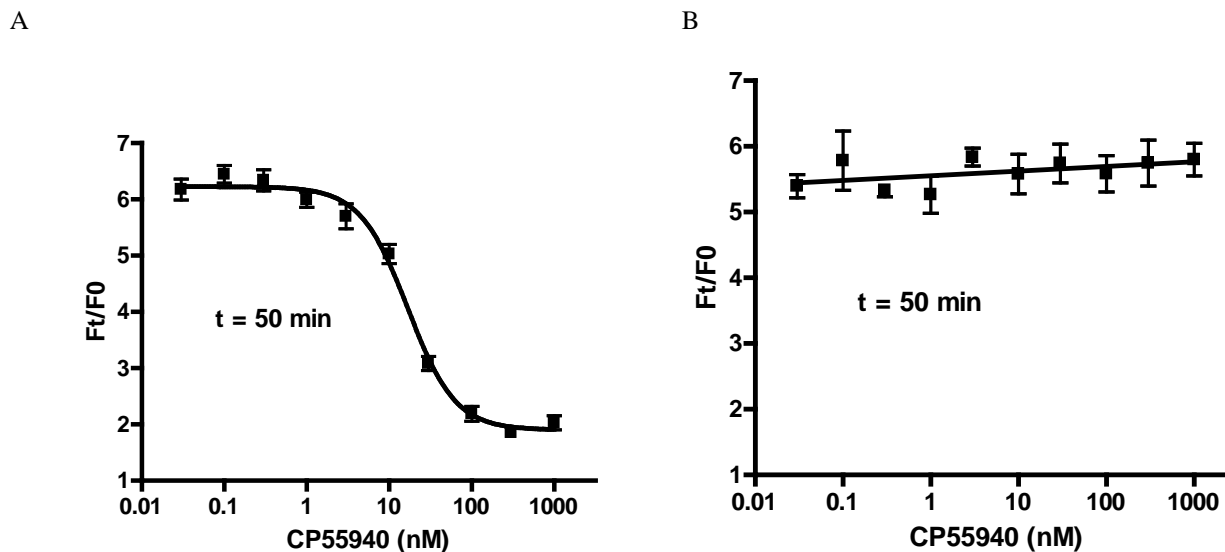
### QUALITY CONTROL

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  $\mu$ g/ml G418 and 1  $\mu$ g/ml puromycin
2. Freezing medium: 10% DMSO, 90% complete medium

### DATA EXAMPLE



#### Figure 1. Response of ACTOne CB2 cell line & parental cell line to CP-55940.

ACTOne CB2 cells and parental cells (AG-10200-200) were plated overnight in 20 ml culture medium on a BD Biocoat 384 well plate. The next day, cells were dye-loaded with 20 ml/well of 1X Dye-loading solution (ACTOne 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 ACTOne CB2 cell line. EC50 = 16.7 nM in the presence of 25 mM of PDE inhibitor Ro20-1724 and 250 nM of adenosine A2b receptor agonist NECA.**
- B. Parental cells do not respond to CP-55940.**