

## DATA SHEET

<b>Catalog #</b>	AG-10200-258
<b>Cell Line Designation</b>	Calcitonin Receptor cell line
<b>Parental Cell</b>	HEK 293-CNG cell (AG-10200-200)
<b>Gene Introduced</b>	Human Calcitonin Receptor (CALCR)
<b>NCBI Accession #</b>	NP_001733

### USAGE

- cAMP assay for Gs-coupled human Calcitonin Receptor (CALCR).
- HEK293-CNG cells (AG-10200-200) without transfected Calcitonin Receptor are used as a negative control.

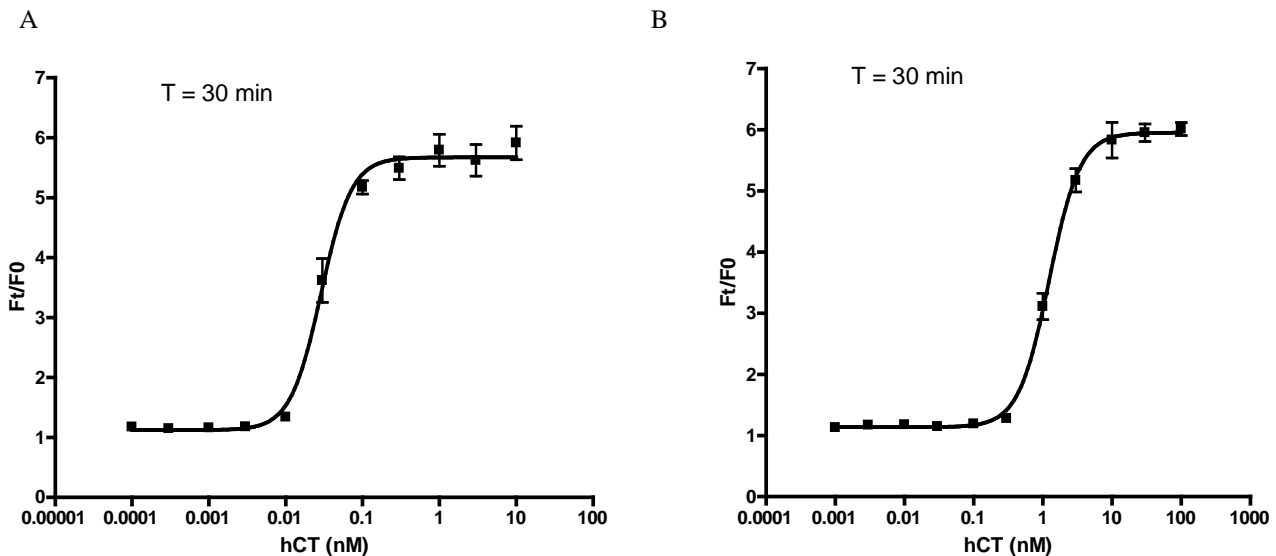
### QUALITY CONTROL

1. This cell line has been tested negative for *Mycoplasma sp.*
2. This cell line has been tested positive for Calcitonin Receptor 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 CALCR cell line & parental cell line to calcitonin.**

ACTOne CALCR 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 30 min after the addition of calcitonin. Ratios of the two readings (F/F0) are plotted in the figure.

**A. Dose response curve of calcitonin in ACTOne CALCR cell line. EC50 = 28.7 pM in the presence of PDE inhibitor Ro20-1724.**

**B. Dose response curve of human calcitonin in Parental cells. In the presence of PDE inhibitor Ro20-1724, EC50 = 1.24 nM.**

*Note. In CALCR cells, EC50 = 230 pM with rat Amy in the presence of Ro20-1724. In the parental cells, the response is negative when rAmy < 10 nM (in the presence of Ro20-1724)*