

## DATA SHEET

<b>Catalog #</b> <b>Cell Line Designation</b> <b>Parental Cell</b> <b>Gene Introduced</b> <b>NCBI Accession #</b>	AG-11200-101 Phosphodiesterase 2A cell line HEK 293-CNG-Gs cell (AG-10200-100) Human Phosphodiesterase 2A (PDE2A) NP_002590
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### USAGE

- cAMP assay for recombinant human phosphodiesterase 2A ( PDE2A).
- HEK293-CNG-Gs cells (AG-11200-100) are used as a negative control.

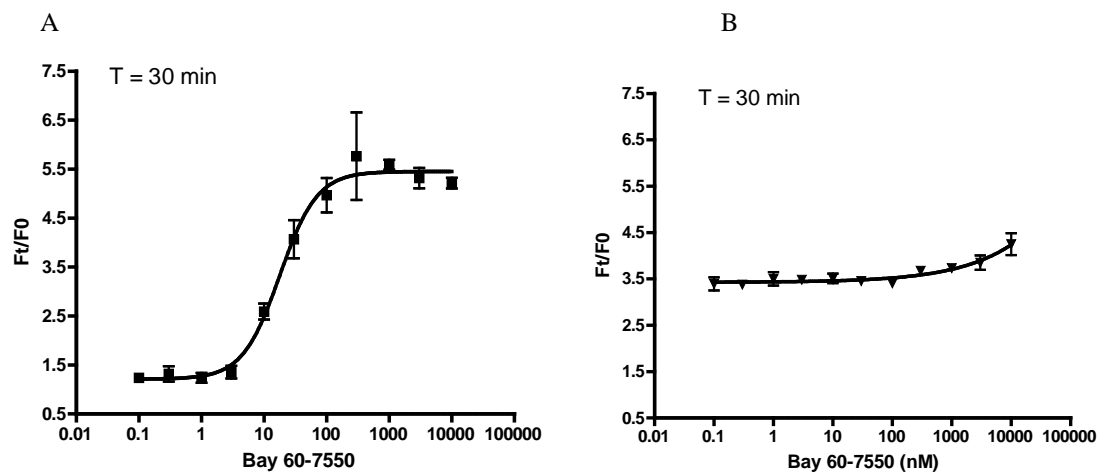
### QUALITY CONTROL

1. This cell line has been tested negative for *Mycoplasma sp.*
2. This cell line has been tested positive for PDE2A 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. DMEM-10%FBS supplemented with 250 µg/ml G418, 1 µg/ml Puromycin and 5 µg/ml blasticidin.
2. Freezing medium: 10% DMSO, 90% complete medium

### DATA EXAMPLE



### Figure 1. Response of ACTOne PDE2A cell line & parental cell line to Bay 60-7550.

ACTOne PDE2A cells and parental cells (AG-11200-100) were plated overnight in 20 ml culture medium on a 384 well Biocoat plate. The next day, cells were dye-loaded with 20 ml/well of ACTOne membrane potential dye. After 2 hour of incubation at room temperature, baseline was recorded using a FlexStation (Molecular Devices) (F<sub>0</sub>). 10 ml of PDE inhibitors at various concentrations were added to the cell plate, and the data was recorded 30 minutes (F<sub>t</sub>) after drug addition. Dose response curves were generated by Prism.

- A. Dose response curve of Bay 60-7550 in ACTOne PDE2A cell line. EC<sub>50</sub> = 17.8 nM in the presence of 10 mM of Ro20-1724**
- B. Parental cells do not respond to Bay 60-7550 in the presence of 10 mM of Ro20-1724**