

DATA SHEET

Catalog #	AG-10300-270
Cell Line Designation	Pancreatic polypeptide receptor 1 cell line
Parental Cell	HEK 293-CNG cell (AG-10200-200)
Gene Introduced	Human Pancreatic polypeptide receptor 1 (PPYR1)
NCBI Accession #	NP_005963

USAGE

- cAMP assay for Gi-coupled human Pancreatic polypeptide receptor 1 (PPYR1).
- HEK293-CNG cells (AG-10200-200) without transfected Pancreatic polypeptide receptor 1 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 Pancreatic polypeptide receptor 1 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 $\mu\text{g/ml}$ G418 and 1 $\mu\text{g/ml}$ puromycin
2. Freezing medium: 10% DMSO, 90% complete medium

DATA EXAMPLE

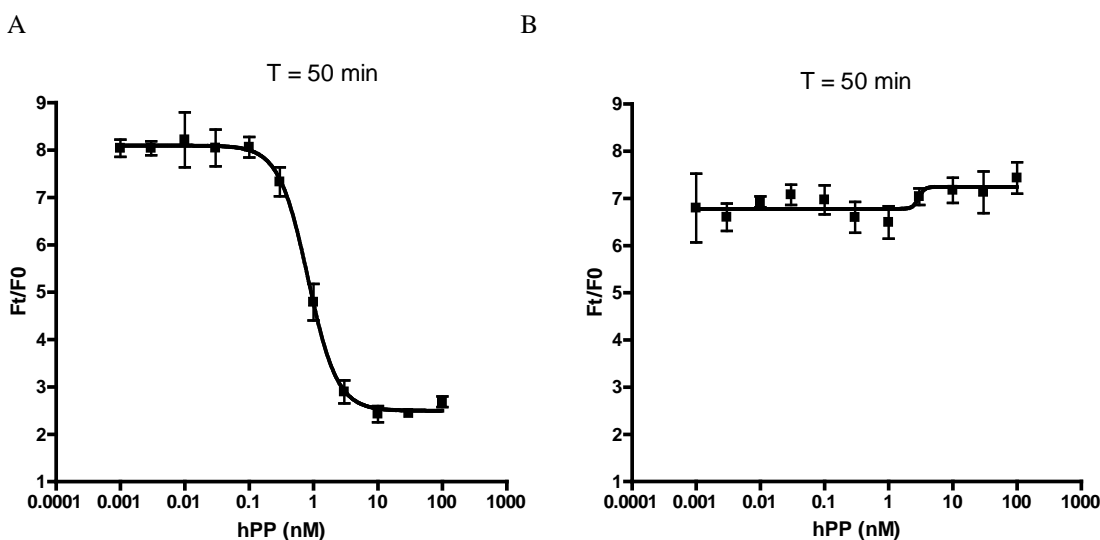


Figure 1. Response of ACTOne PPYR1 cell line & parental cell line to hPP.

ACTOne PPYR1 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 hPP. Ratios of the two readings (Ft/F0) are plotted in the figure.

- A. Dose response curve of hPP in ACTOne PPYR1 cell line. EC50 = 816 pM in the presence of PDE inhibitor Ro20-1724 and b-adrenoceptor agonist isoproterenol.**
- B. Parental cells do not respond to hPP.**