

DATA SHEET

Catalog #	AG-10200-209
Cell Line Designation	Vasoactive Intestinal Peptide Receptor 2 cell line
Parental Cell	HEK 293-CNG cell (AG-10200-200)
Gene Introduced	Human Vasoactive Intestinal Peptide Receptor 2 (VIPR2)
NCBI Accession #	NP_003373

USAGE

- cAMP assay for Gs-coupled human Vasoactive Intestinal Peptide Receptor 2 (VIPR2).
- HEK293-CNG cells (AG-10200-200) without transfected Vasoactive Intestinal Peptide 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 Vasoactive Intestinal Peptide 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 $\mu\text{g/ml}$ G418 and 1 $\mu\text{g/ml}$ puromycin
2. Freezing medium: 10% DMSO, 90% complete medium

DATA EXAMPLE

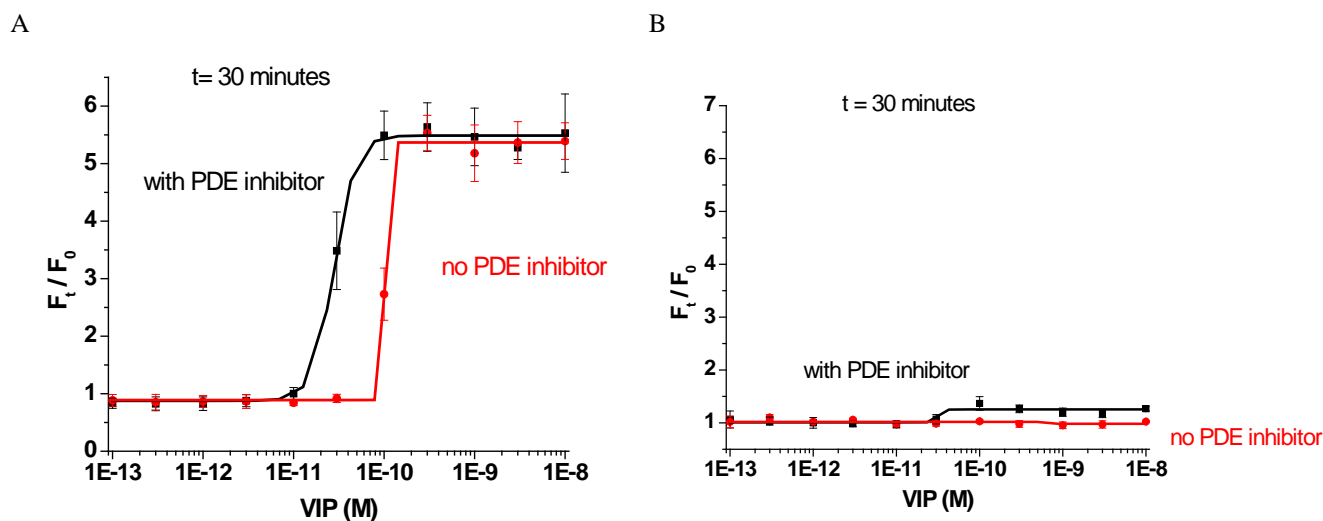


Figure 1. Response of ACTOne VIPR2 cell line & parental cell line to VIP.

ACTOne VIPR2 cells and parental cells (AG-10200-200) were plated overnight in 20 μl culture medium on a BD Biocoat 384 well plate. The next day, cells were dye-loaded with 20 $\mu\text{l/well}$ 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 VIP. Ratios of the two readings (F/F_0) are plotted in the figure.

- A. Dose response curve of VIP in ACTOne VIPR2 cell line. $\text{EC}_{50} = 28 \text{ pM}$ in the presence of PDE inhibitor Ro20-1724, and $\text{EC}_{50} = 100 \text{ pM}$ in the absence of Ro20-1724.**
- B. Parental cells do not respond to VIP.**