

DATA SHEET

Catalog #	AG-10200-272
Cell Line Designation	Beta-1 adrenergic receptor cell line
Parental Cell	HEK 293-CNG cell (AG-10200-200)
Gene Introduced	Human beta-1 adrenergic receptor (ADRB1)
NCBI Accession #	NP_000675

USAGE

- cAMP assay for Gs-coupled human adrenergic, beta-1-, receptor (ADRB1).
- HEK293-CNG cells (AG-10200-200) without transfected beta-1 adrenergic 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 adrenergic, beta-1-, receptor specific response.
3. Surviving rate: More than 2.0 million/vial on the second day after thawing.

CELL CULTURE CONDITION

1. Growth medium: 90% DMEM, 10% FBS, 250 μ g/ml G418 and 1 μ g/ml puromycin
2. Freezing medium: 10% DMSO, 90% complete medium

DATA EXAMPLE

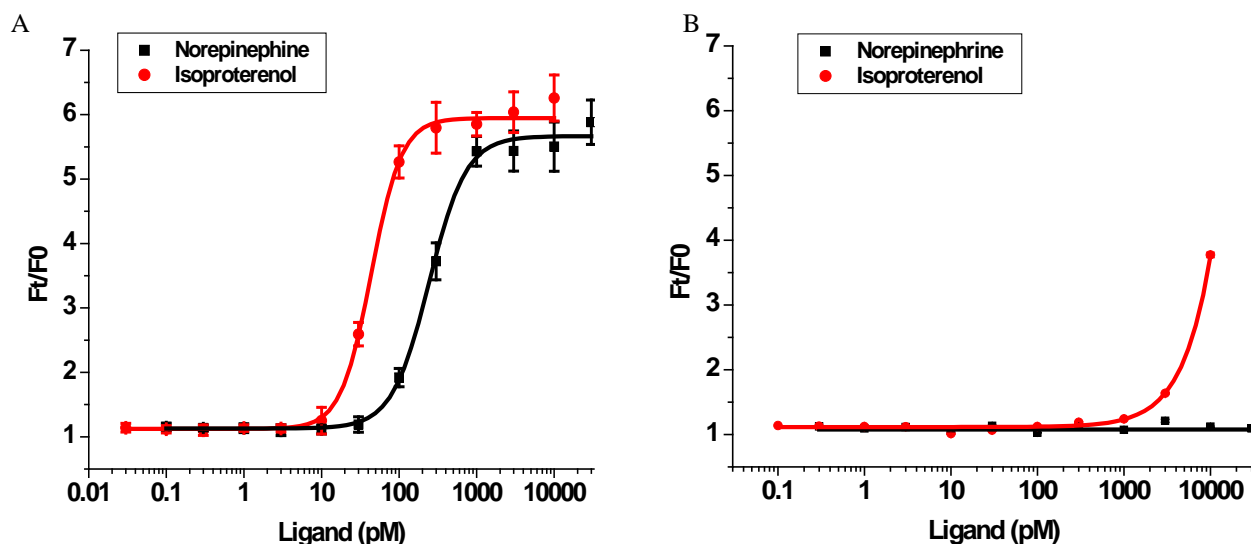


Figure 1. Response of ACTOne ADRB1 cell line & parental cell line to Norepinephrine and Isoproterenol.

ACTOne ADRB1 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 the ligands. Ratios of the two readings (F/F0) are plotted in the figure.

- A. Dose response curve of Norepinephrine or Isoproterenol in ACTOne ADRB1 cell line. With Norepinephrine, EC50 = 243 pM in the presence of 25 mM of PDE inhibitor Ro20-1724; With Isoproterenol, EC50 = 43.8 pM in the presence of 25 mM of PDE inhibitor Ro20-1724**
- B. Parental cells do not respond to Norepinephrine. The Parental cells do not respond to Isoproterenol when it is lower than 1 nM.**