

DATA SHEET

Catalog #	AG-10200-222
Cell Line Designation	Dopamine Receptor D5 cell line
Parental Cell	HEK 293-CNG cell (AG-10200-200)
Gene Introduced	Human Dopamine Receptor D5 (DRD5)
NCBI Accession #	NP_000789

USAGE

- cAMP assay for Gs-coupled human Dopamine Receptor D5 (DRD5).
- HEK293-CNG cells (AG-10200-200) without transfected Dopamine Receptor D5 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 Dopamine Receptor D5 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 μ g/ml G418 and 1 μ g/ml puromycin
2. Freezing medium: 10% DMSO, 90% complete medium

DATA EXAMPLE

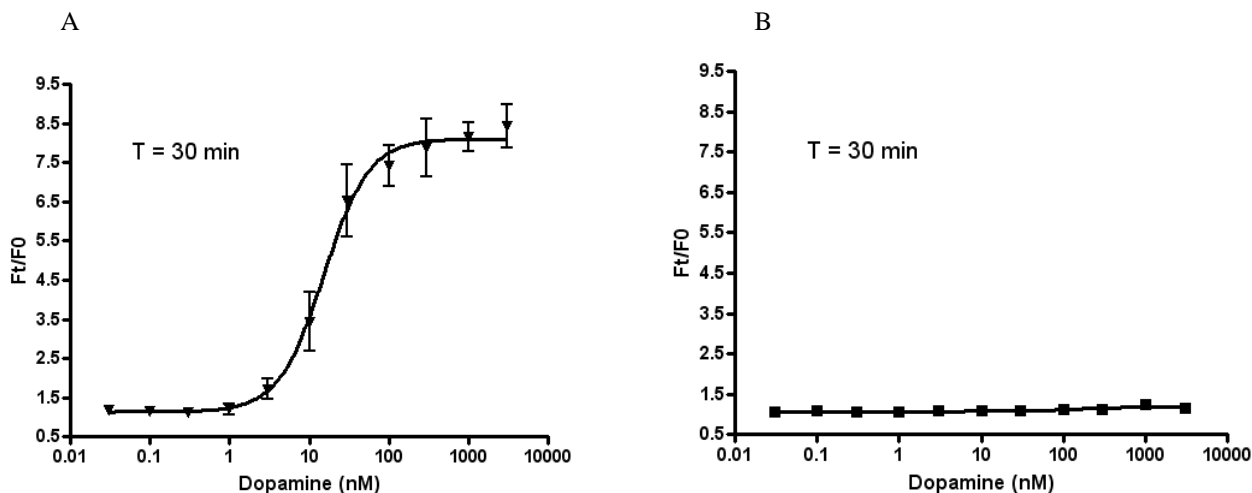


Figure 1. Response of ACTOne DRD5 cell line & parental cell line to dopamine.

ACTOne DRD5 cells and parental cells (AG-10200-200) were plated overnight in 20 ml culture medium on a BD Bionocoat 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 dopamine. Ratios of the two readings (Ft/F0) are plotted in the figure.

- A. Dose response curve of dopamine in ACTOne DRD5 cell line. EC50 = 15.12 nM in the presence of PDE inhibitor Ro20-1724.**
- B. Parental cells do not respond to dopamine.**