DATA SHEET

Catalog #	AG-10300-254
Cell Line Designation	Sphingosine 1-phosphate receptor 1 cell line
Parental Cell	HEK 293-CNG cell (AG-10200-200)
Gene Introduced	Human sphingosine 1-phosphate receptor 1 (S1PR1)
NCBI Accession #	NP_001391

USAGE

- cAMP assay for Gi-coupled human Endothelial Differentiation, sphingosine 1-phosphate receptor 1 (S1PR1).
- HEK293-CNG cells (AG-10200-200) without transfected Endothelial Differentiation, sphingosine 1-phosphate 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 sphingosine 1-phosphate 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 µg/ml G418 and 1 µg/ml puromycin
2. Freezing medium: 10% DMSO, 90% complete medium

DATA EXAMPLE

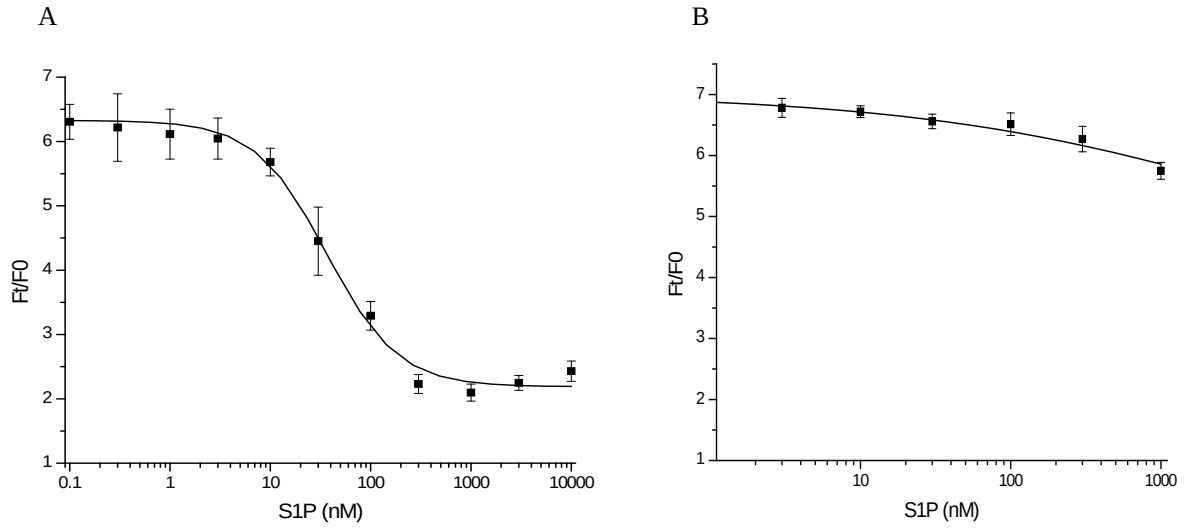

Figure 1. Response of ACT*One* EDG1 cell line & parental cell line to S1P.

ACT*One* EDG1 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 (ACT*One* Membrane Potential Assay Kit). After 2 hours of incubation at room temperature, two readings were obtained prior to and 40 min after the addition of S1P. Ratios of the two readings (F/F0) are plotted in the figure.

A. Dose response curve of S1P in ACT*One* EDG1 cell line. EC50 = 36 nM in the presence of PDE inhibitor Ro20-1724 and b-adrenoceptor agonist isoproterenol.

B. Parental cells do not respond to S1P.