

DATA SHEET

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| Catalog # | AG-10300-265 |
| Cell Line Designation | Chemokine (C-X-C motif) Receptor 4 cell line |
| Parental Cell | HEK 293-CNG cell (AG-10200-200) |
| Gene Introduced | Human Chemokine (C-X-C motif) Receptor 4 (CXCR4) |
| NCBI Accession # | NP_003458 |

USAGE

- cAMP assay for Gi-coupled human Chemokine (C-X-C motif) Receptor 4 (CXCR4).
- HEK293-CNG cells (AG-10200-200) without transfected Chemokine (C-X-C motif) Receptor 4 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 Chemokine (C-X-C motif) Receptor 4 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

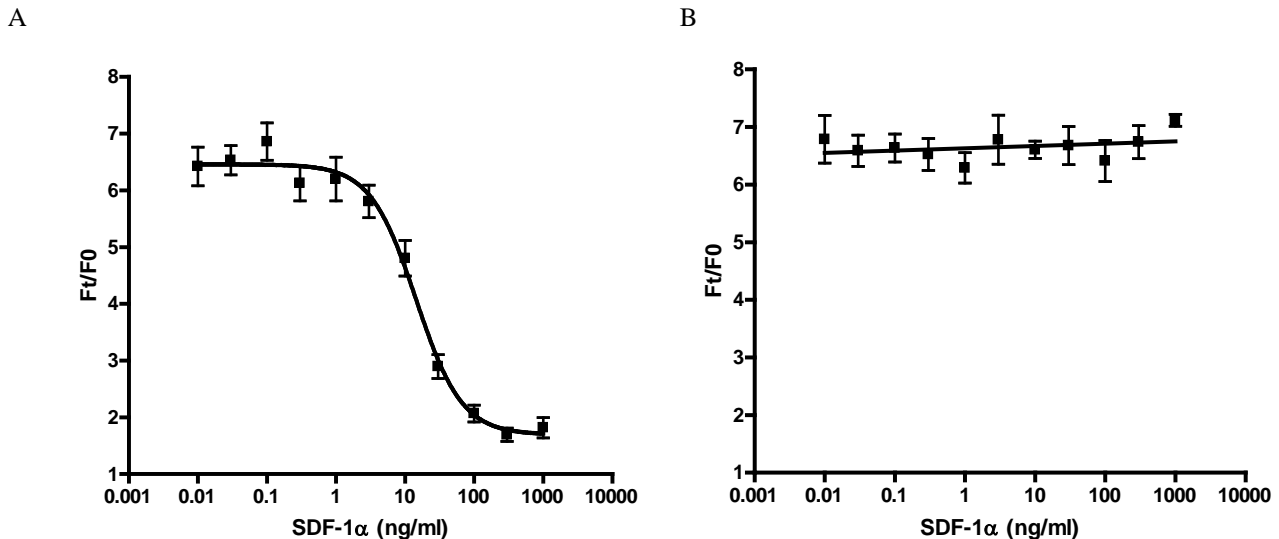


Figure 1. Response of ACTOne CXCR4 cell line & parental cell line to SDF-1a.

ACTOne CXCR4 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 25 min after the addition of SDF-1a. Ratios of the two readings (F/F0) are plotted in the figure.

- A. Dose response curve of SDF-1a in ACTOne CXCR4 cell line. EC50 = 14 ng/ml in the presence of PDE inhibitor Ro20-1724 and b-adrenoceptor agonist isoproterenol.**
- B. Parental cells do not respond to SDF-1a.**