

## DATA SHEET

<b>Catalog #</b> <b>Cell Line Designation</b> <b>Parental Cell</b> <b>Gene Introduced</b> <b>NCBI Accession #</b>	AG-10200-215 Melanocortin 5 Receptor cell line HEK 293-CNG cell (AG-10200-200) Human Melanocortin 5 receptor (MC5R) NP_005904
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### USAGE

- cAMP assay for Gs-coupled human Melanocortin 5 Receptor (MC5R).
- HEK293-CNG cells (AG-10200-200) without transfected Melanocortin 5 Receptor are used as a negative control.

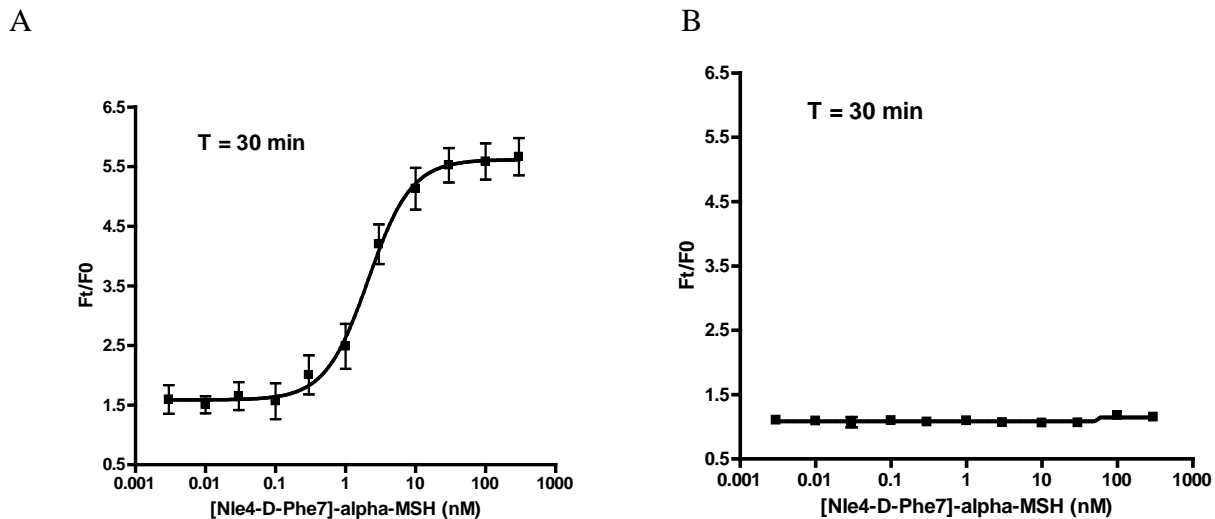
### QUALITY CONTROL

1. This cell line has been tested negative for *Mycoplasma sp.*
2. This cell line has been tested positive for Melanocortin 5 Receptor 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  $\mu$ g/ml G418 and 1  $\mu$ g/ml puromycin
2. Freezing medium: 10% DMSO, 90% complete medium

### DATA EXAMPLE



**Figure 1. Response of ACTOne MC5R cell line & parental cell line to [Nle4, D-Phe7] a-MSH.**

ACTOne MC5R 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 [Nle4, D-Phe7] a-MSH. Ratios of the two readings (F/F0) are plotted in the figure.

- A. Dose response curve of [Nle4, D-Phe7] a-MSH, in ACTOne MC5R cell line. EC<sub>50</sub> = 2.1 nM in the presence of PDE inhibitor, Ro 20-1724.**
- B. Parental cells do not respond to [Nle4, D-Phe7] a-MSH.**