

Product data sheet

A375 SMAD/TGFbeta Reporter (Luc) stable cell line

Catalog Number: CL-1464 Storage: Liquid nitrogen

Components: 1 vial contains ~2 x10⁶ cells in Cell freezing medium

Product description

A375 SMAD/TGFbeta Reporter (Luc) cells are derived from the human melanoma A375 cell line by stably integration of a SMAD/TGFbeta firefly luciferase reporter construct. A375 cell line has been widely used in cancer research and drug development. A375 SMAD/TGFbeta Reporter (Luc) cells stably express firefly luciferase under the control of the SMAD/TGFbeta response elements, can be used for monitoring the activity of TGFβ/SMAD signaling pathway.

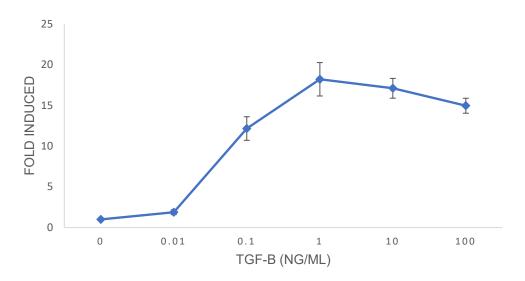


Figure 1. Dose-response of A375 SMAD/TGFbeta Reporter (Luc) cells to recombinant human TGF- β . Cells were stimulated with increasing concentrations of recombinant human TGF- β 1 (hTGF- β 1). After incubation for 24 hours, the TGF- β /Smad response was determined using Bright-GloTM luciferase Assay System (Promega, Cat E2610).

Cell line description

Organism: Homo sapiens (human)

Tissue: Skin

Morphology: epithelial

Culture Properties: adherent Disease: Malignant Melanoma

Biosafety Level: 2

Medium

Complete culture medium: DMEM with 10% fetal bovine serum (FBS)
1 μg/mL of puromycin may be added to the culture medium. Puromycin should not be added until a culture has been well established from the thawed cells.

2. Freeze medium: FBS with 6% DMSO

Culture procedure

Thawing of frozen cells

- 1. Thaw the frozen cryovial by gentle agitation in a 37 °C water bath in 1-2 minutes.
- 2. Remove the cryovial from the water bath as soon as the contents are thawed, and decontaminate by wiping with 70% ethanol.
- 3. Transfer the thawed cell suspension to a centrifuge tube containing 10 ml of Complete culture medium, centrifuge at 500 g for 5 minutes.
- 4. Remove the medium by aspiration, resuspend the cells with 10 ml of the Complete culture medium by gently pipetting up and down.
- 5. Transfer the cells to a 10 cm cell culture dish.
- 6. Place the cells in a 37°C incubator with 5% CO2.

Sub-culturing

Volumes are given for a 10 cm cell culture dish. Increase or decrease the amount of dissociation medium needed proportionally.

- 1. Remove the medium by aspiration.
- 2. Briefly rinse the cell layer with 1xDPBS to remove all traces of serum that contains trypsin inhibitor.
- 3. Add 1 ml of Trypsin-EDTA (0.25%) solution to the dish and observe cells under an inverted microscope until cell layer is dispersed.
- Add 4 ml of complete growth medium and aspirate cells by gently pipetting.
- 5. Add appropriate aliquots of the cell suspension to new culture vessels. Incubate cultures at 37°C with 5% CO2.