# Fenics **BIO**

## Product data sheet

Human BMPR2 Knockout A549 cell line Catalog Number: A549KO-10935 Storage: Liquid nitrogen Components: One vial of gene knockout cells (1x10<sup>6</sup> cells) and one vial of control parental cells (1x10<sup>6</sup>)

## **Product description**

Engineered clonal A549 cells with BMPR2 gene knockout, sequence confirmed.

## **Cell line description**

Parental cell line: A549 Genotype: BMPR2-/-Organism: Homo sapiens (human) Tissue: Lung Morphology: epithelial-like Culture Properties: Adherent Biosafety Level: 2

## Medium

- 1. Complete culture medium: DMEM with 10% fetal bovine serum (FBS)
- 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 (0.05%) solution to the dish and observe cells under an inverted microscope until cell layer is dispersed.
- 4. 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.

#### Sequence verification

WΤ

KO

There is a 104 bp deletion in exón 11.