FenicsBIO

Product data sheet

SU-DHL-4/Luciferase stable cell line

Catalog Number: CL-1676

Storage: Liquid nitrogen

Components: 1 vial contains ~2 x$10^6$ cells in Cell freezing medium

## Product description

SU-DHL-4/Luciferase cells are derived from the human diffuse large B-cell lymphoma (DLBCL) cell line SU-DHL-4 by stably integration of a constitutive firefly luciferase expression construct. SU-DHL-4 cell line exhibits the typical properties of DLBCL cells, including rapid growth and the ability to form tumors in vivo. It can serve as a model for studying various aspects of lymphoma biology and testing the efficacy of new therapeutic agents. SU-DHL-4/Luciferase cells stably express firefly luciferase, can be used for *in vitro* assays and *in vivo* imaging.

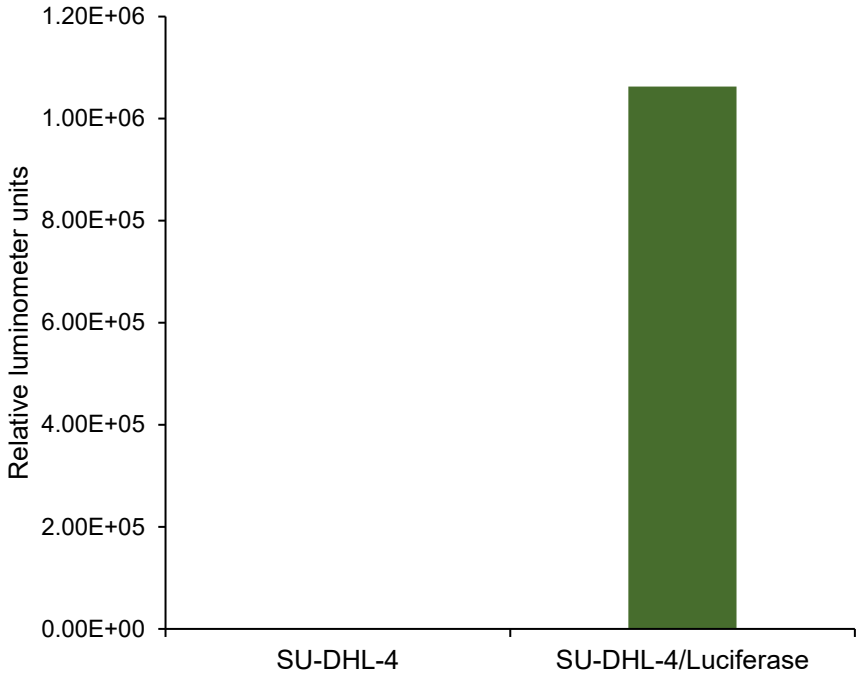


Figure 1. Firefly luciferase expression in SU-DHL-4/Luciferase stable cell line.

The luminescence intensity of ~5000 cells was detected by Bright-Glo™ luciferase Assay System (Promega, Cat E2610).

## Cell line description

Organism: *Homo sapiens* (human)

Tissue: Peritoneal effusion

Cell Type: B lymphocyte

Morphology: Lymphoblast-like

Culture Properties: Suspension

Biosafety Level: 2

## Medium

1. Complete culture medium: RPMI-1640, 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 2 ml of the Complete culture medium by gently pipetting up and down.
5. Transfer the cells to a T-25 suspension cell culture flask.
6. Place the cells in a 37°C incubator with 5% CO2.

Sub-culturing

Cultures can be maintained by the addition of fresh medium or replacement of medium. Alternatively, cultures can be established by centrifugation with subsequent resuspension at 1 to 2 x $10^5$ viable cells/ml. Subculture when the cell concentration is between 8.0 x $10^5$ and 1.0 x $10^6$ cells/ml.

Renew or add fresh medium every 2-3 days.