

## Product data sheet

HL-60/GFP stable cell line

Catalog Number: CL-1160

Storage: Liquid nitrogen

Components: 1 vial contains  $\sim 2 \times 10^6$  cells in Cell freezing medium

## Product description

HL-60/GFP cells are derived from the human leukemia HL-60 cell line by stable integration of a constitutive GFP expression construct. HL-60 cells have been used in cancer research and drug development. HL-60/GFP cells stably express GFP, can be used for *in vitro* assays and *in vivo* imaging.

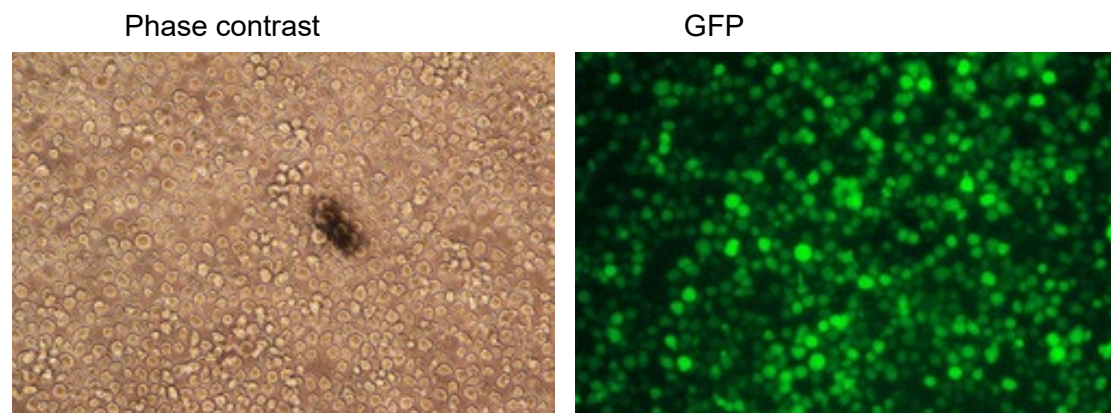


Figure 1. GFP expression in HL-60/GFP stable cell line

## Cell line description

Organism: Homo sapiens (human)

Tissue: Peripheral blood

Cell Type: promyeloblast

Morphology: Lymphoblast-like

Culture Properties: Suspension

Disease: Acute promyelocytic leukemia

Biosafety Level: 2

## Medium

1. Complete culture medium: RPMI-1640, 10-20% fetal bovine serum (FBS)  
0.5 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: Fetal bovine serum (FBS), 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% CO<sub>2</sub>.

### 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  $1 \times 10^5$  viable cells/ml. Maintain cell density between  $1 \times 10^5$  and  $1 \times 10^6$  viable cells/ml.

Renew or add fresh medium every 2-3 days.