

## Cell Number Count

### Material:

HUVEC cell

JQ1

6 well plate (BD Falcon)

### Procedure:

1. Seed the HUVEC cell at the density of  $5 \times 10^3$  cells/well
2. Add JQ1+ to the final concentration of 500nm into EGM2 growth medium
3. Digest the cell with Trypsin+0.25% EDTA and count the cell number with hemocytometer every day from Day2 after seeding
4. Change the medium every two days and stop the assay in 5-6 days.

## Dose Test

### Material:

HUVEC cell

JQ1

96 well plate (BD Falcon)

CellTiter 96® AQueous One Solution Cell Proliferation Assay (Promega)

### Procedure:

1. Seed the HUVEC cell at the density of  $1 \times 10^3$  cells/well
2. Add divergent dose of JQ1+ (0-1000nm) into EGM2 growth medium
3. Incubate the plate at 37°C for 48–72 hours in a humidified, 5% CO<sub>2</sub> atmosphere.
4. Add 20µl per well of CellTiter 96. AQueous One Solution Reagent.
5. Incubate the plate at 37°C for 1–4 hours in a humidified, 5% CO<sub>2</sub> atmosphere.
6. Record the absorbance at 490nm using a 96-well plate reader.
7. Plot the corrected absorbance at 490nm (Y axis) versus concentration of growth factor (X axis). Determine the X-axis value corresponding to one-half the difference between the maximum (plateau) and minimum (no growth factor control) absorbance values; this is the ED50 value (ED50 = the concentration of growth factor necessary to give one-half the maximum response.)

