HUVEC

300605

□□ □□

□□

□□ □□ □□ □□ □□(HUVEC)□ □□ □□□ □□ □□□□□ □□□ □□ □□□□□. HUVEC□ □□ □□ □□ □□□□ □□ □□□ □□□ □□□ □ □□ □□□□ □□ □□ □□□ □□□□ □□□□ □□□□□. □ □□□ □□ □□, □□, □□ □□□ □□□□□ □□□ □□ □□ □□□ □□□□□ □□□□ □□□□.
HUVEC□ □ □□□□□ □□, CD31, □□ □□□□ □□□□(eNOS)□ □□ □ □□ □□□ □□ □□□ □□□□, □□ □□□ □□□ □□□ □□□□□. □□ □□□□□□ □□□ □ □□□ □□□ □□□ □ □□ □□ □□ □□□ □□ □□□□ □□□□□□.
□□□□□□ □□ □□□ □□□□ HUVEC□ □□□ □□□□□, □□□, □□□□ □□ □□ □□□ □□□ □□ □□□ □□□□ □ □□□ □□□□□□. □□ □□ □□□ □□ □□□ □□ □□ □□□□ □□□ □ □□ □□□ □□ □□□ □□□ □□□ □□ □□□□ □□□□□.
□□□ □□□□□ □□□□□ □□ □□ □□□ □□□ □□□ □□□□ □□ HUVEC□ □□□□□. □□□ □□□ □□□ □□□ □□ □□□ □□ □□□ □□□ □□ □□□□ □□□ □□□ □□□□□. □□□ □□□ □□ □□□ □□□ □□ □□□ □□□□ □ □□ HUVEC□ □□□□ □□□□□.

□□	□□ □□

□□ □□

□□ □□ □□ □□ □□(HUVEC)□ □□□ □□□□ □□ □□□ □□ □□□ □□□ □□□□ □□□ □ □□ □□□ □□□ □□□ □□ □□□□ □□ □□□□ □□□□.
HUVEC□ □□ □□, □□ □□, □□ □□, □□, □□□, □□□, □□ □□□, □□ □ □□□ □□ □ □□ □□ □□□ □□□□ □□□□.

□□□

- HUVEC
- Human umbilical vein endothelial cells
- provitro 1210111

□□□

□□□ □□	Newborn (umbilical cord)
□□	□□

□□

□□□	□□
□	□□□
□□ □□	□□□
□□□□ □□	1

□□

□□□	□□
□□ □□	□□ □
□□ □□□	No

□□ □ □□

□□

□□ □□ □□ □□(PromoCell □□ □□ C-22010)

□□ □□	37°C, 5%CO2, □□ □□.
□□ □□	□□□□

□□□

□□□ □□□□ □□□ □□□ □□□□ □□□ □□□□□ □□ PBS□ □□□□□. T25 □□□□□ □□ 3~5ml, T75 □□□□□ □□ 5~10ml□ PBS□ □□□□□. □□ □□ T25 □□□□□ □□ 1~2□, T75 □□□□□ □□ 2.5□□ □□□□ □□□ Accutase□ □□□ □□□□. □□□ □□□□ □□ □□□□ 8~10□□ □□□□□. □□ □ □□□ □□ 10ml□ □□□□ □□□□ □□□□□ □□ 300xg□□ 3□□ □□□□□□□. □□□□ □□□ □□□ □□□ □□□ □□ □□□□ □ □□ □□□ □□□ □□ □□ □ □□□□□ □□□□.

□□ □□	More than 6,000 cells/cm²
□□ □□	2~3□□□
□□ □ □□	Post-thaw viability ≥ 70 % viable cells. More than 80 % confluence within the expected recovery period.

□□ □ □□

Thaw the cryovial quickly in a 37 °C water bath, swirling gently. Just before the last ice has melted, move the vial to a laminar flow hood and decontaminate its outer surface.
Transfer the cell suspension into a 15 ml centrifuge tube, add 10 ml of Endothelial Cell Growth Medium and centrifuge at 250 × g for 5 minutes.
Remove the supernatant and resuspend the cell pellet in 10 ml of Endothelial Cell Growth Medium. Check cell number and viability.
Divide the suspension between two 25 cm² culture flasks (5 ml each). Using two flasks reduces the risk of losing all cells if a passage fails.
Incubate at 37 °C, 5 % CO_2 and saturated humidity, with the screw caps opened by half a turn for gas exchange.
Change the medium after 24 hours to remove unattached cells, then every 48 to 72 hours, using pre-warmed medium only.
Subculture the cells at about 75 % confluence. Denser cultures undergo irreversible contact inhibition and stop proliferating. Use the subculture reagents recommended on the certificate of analysis.
Recommended seeding density: more than 6,000 cells/cm².

□□ □□ □ □□ □□

□□

□□□□□□□ □□□ PCR □□ □□□□ □□ □□ □□□□□□□ □□□□ □□ □□□□ □□□□□.
□□□□, □□□ □□ □□ □□□ □□□ □□□□ □□ □□ □□□ □□ □□ □□□ □□□□.

□□□ □□	□□ □□ □□□□ □□ □ □□□ □□□□ □□ □□ □□ □□(FBS □□) + 10% DMSO□ □□□□□, □□□ □ □□ □□□ □ □□ □□□□ □□□ CM-1(Cytion □□□□ □□ 800100)□ □□□□ □□□□ □□□ □□□ □ □□ □□□□□ □□□□.

□□ □□

□□ □□□ □□□□ □□□□ □ -150°C□□ -196°C□ □□□ □□ □□□ □□□□. 80°C□□ □□□□ □□ □□ □□□ □□□ □ □□ □□ □□□□ □□□□□.

□□ □□

□□ □□ □□□□ □□ □ □ -78°C□ □□□ □ □□ □□□ □□□ □□□ □□□ □□ □□□ □□□□□□□ □□ □□□□□. □□ □□ □□□ □□□□ □□□□ □□ □□ □ □□ □□ □□□ □□□□.

□□ □ □□□

□□ □□

CD31⁺, CD105⁺

□□□ □□

□□ □□□□ □□ □□□ VWF/□□ VIII > 95% □□. □□ □□□□□ 95% □□ □□□ Di-I-Ac-LDL□ □□□ □□. □□□ PECAM1 > □□ □□□ 95% □□

□□□□

HIV-1, HBV, HCV □□ □□

Cytion GmbH
Nikola-Tesla-Str. 3
69124 Heidelberg
Tel: +49 (0)6221 405780
info@cytion.com
cytion.com

Registered office Heidelberg
VAT ID: DE283292917
Local court Mannheim - HRB 714394
CEO / Geschäftsführer: Jonathan Steubing

Banking information
Sparkasse Heidelberg
IBAN: DE35 6725 0020 0009 2076 86
BIC: SOLADES1HDB

□□□

□□

HUVEC, □□(□□□□ □□□□ □□ 300605)

NCBI □□ □□□□	9606

□□ □ □□

□□ □□

□□ □□□ □□ □□ □□□ □□ □□□ □□□□ □□, □□□ □□ □□□ □□□□ □□□. □□□ □□ □□□ □□□ □□□□, □□ □□ □□□ □□ □□□ □□ □□ □□□ □□ □□□□ □□□□ □□□□ □□□. □□ □□ □ □□□□ □□□ □□□□ □ □□ □□□ □□□ □□ □□ □□□ □□□ □□ □□□□.

□□

□□□□□ □□□ □□□ □□□□ □□□□□.
□□□ □□ □□□□ □□□ □ 60□ □□ □□ □□ □ □□□ □□□ □ □□□ □□□□□.
□□□ □□ □□□ □□ □□□ □/□□ □□ □□□ □□□ □□□ □□□□ □□□□□
□□□ □□□ <a href=""/Who-we-are/Warranty/"" hreflang=""x-default"">□□□ □ □□□□□ □□□□

□□ □□ □□□**(MTA)**□ □□□□□**.**	Yes