ANGIO-PROTEOMIE

DATA SHEET

SV40-GFP Mouse Liver Microvascular Endothelial Cells (SV40-GFP-mLivMVECs)

ORDER INFORMATION
Name of Cells: SV40t-GFP Mouse Liver Microvascular Endothelial Cells (SV40-GFP-mLivMVECs)
Catalogue Number: **cAP-m0006-SV40-GFP**
Product Format: Frozen Vial
Cell Number: > 5 x 10^5/vial
General Information
Mouse Liver Microvascular Endothelial Cells (mLivMVECs) were initially isolated from mouse liver tissues of 3-week old C57/Black6 mice and SV40-GFP-mLivMVECs were selected from mLivMVECs infected with SV40 and GFP expressing lentiviruses with puromycin. Endothelial Growth Medium (cAP-02) is recommended for the expansion of SV40-GFP-mLivMVECs). And we warranty a minimum of 30 passages of the cells if cultured following the detailed protocol described below).
Characterization:

Positive: **CD31, VEGFR2, CD144 and CD146**
SV40-GFP-mhtMVECs are tested negative for common animal pathogen and mycoplasma.

Product Use: SV40-GFP-mHtMVECs are for Research Use Only.
Shipping: Frozen Vial with > 5 x10^5 cells/vial

Handling of Arriving Cells
When you receive the cells in a frozen vial, you can transfer the vial of cells into a -80ºC freezer for short term storage or a liquid nitrogen tank for long term storage. Thaw the cells in a 37°C water bath, and then transfer the cells into a T25 flask Quick Coating Solution (cAP-01) pre-coated flasks as described in details in Subculture Protocol.

Subculture Protocol
Pre-coating of T25 flasks: Add 2ml of the Quick Coating Solution Coating Solution (cAP-01) into one T25 flask and make sure the whole surface of the flask is covered with the Coating Solution; Leave the T25 flask with the Quick Coating Solution for 5 minutes; Aspirate off the Coating Solution after 5 minutes and the flask is ready to be used.

A) When Cells are nearly confluent, rinse the cells in T25 flask with 5ml HBSS (**Room Temperature, RT**) twice.
B) Add 2ml of Trypsin/EDTA (**RT**) (cAP-23) into one T25 flask (make sure the whole surface of the T25 flask is covered with Trypsin/EDTA), and gently dispose the excessive Trypsin/EDTA solution **within 30 seconds** with aspiration.
C) Leave the T25 flask with the cells at **RT** for 3-5 minute (the cells usually will detach from the surface within 1-2 minutes). You must monitor the cells under microscope and when most of cells become rounded up, hit the flask gently against the bench surface, and the cells will move on the surface of the flask when monitoring under microscope.
D) Add 5ml Trypsin Neutralization Buffer (cAP-28) and spin the cells down with 800g for 5 minutes.
E) Re-suspend the cell pellet with 15ml of full cell culture medium and the cell suspension is transferred directly into 3 pre-coated T25 flasks (5ml each, and the cells are sub-cultured at 1:3 ratios)
F) Change medium every 2-3 days and cells usually become confluent within 5-7days (when split at a 1:3 ratio).

Related Products:

Quick Coating Solution	cAP-01	240ml	Angio-Proteomie
Endothelial Growth Medium	cAP-02	500ml	Angio-Proteomie
Endothelial Basal Medium	cAP-02B	500ml	Angio-Proteomie
HBSS w/o Ca^{2+} , Mg^{2+}	cAP-11	100ml	Angio-Proteomie
Cell Freezing Solution (FBS)	cAP-22	50ml	Angio-Proteomie
Cell Freezing Solution (Non-FBS)	cAP-22B	50ml	Angio-Proteomie
Trypsin/EDTA Solution	cAP-23	100ml	Angio-Proteomie
Trypsin Neutralization Solution	cAP-28	100ml	Angio-Proteomie
ITS (100x)	cAP-26	10ml	Angio-Proteomie
L-Glutamine-MAXIMUM (100x)	cAP-27	100ml	Angio-Proteomie
Human Plasma Fibronectin Solution	cAP-42	1mg/ml	Angio-Proteomie

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