

Human Aortic Smooth Muscle Cells (adult)
ORDER INFORMATION

Name of Cells: Human Aortic Smooth Muscle Cells (**HuASMCs**)
Catalogue Number: **cAP-0026**
Product Format: Frozen Vial
Cell Number: >5 x 10⁵/vial

General Information

HuASMCs (cAP-0026) are isolated from adult human aorta. The cells are shipped in frozen vials (the cells are provided @ passage 2). Smooth Muscle Cells (SMCs) Growth Medium (cAP-24) is recommended for the expansion of HuASMCs and these cells can be propagated to extra 3-4 passages without losing their morphologic and phenotypic characteristics when cultured following the detailed protocol described below).

Characterization of the cells

Alpha-Vascular SMA: > **98% positive by immunofluorescence**
 VE-Cadherin: < **1% positive by immunofluorescence**

HuASMCs are tested negative for mycoplasma.

Product Use: HuASMCs are for Research Use Only.

Handling of Arriving Cells

When you receive the frozen vials, you can keep the frozen vials in a -80°C Freezer for short term storage or in a liquid nitrogen tank for long term storage. Frozen vials should be thawed in 37°C water bath immediately before plating the cells in to 10ml of SMCs Growth Medium (cAP-24) in a T25 flask, and the cells should be incubated in a 37°C CO2 incubator for overnight. The medium should be changed on the next day.

Subculture Protocol

- A) Rinse the cells in T25 flask with 5ml of HBSS w/o Ca²⁺ and Mg²⁺ (cAP-11) at (Room Temperature, **RT**) twice.
- B) Add 2ml of Trypsin/EDTA Solution (**RT**) (cAP-23) into T25 flask (make sure the whole surface of the T25 flask is covered with Trypsin/EDTA), and gently dispose the Trypsin/EDTA solution **within 10 seconds** with aspiration.
- C) Leave the T25 flask with the cells at **RT** for 2 minutes (the HNDFCs usually will be detached from the surface within 2 minute).
- D) Re-suspend the cells with 10-15ml of fresh Full medium and the cell suspension is transferred directly into 2 or 3 x T25 flasks (5ml each, and the cells are subcultured at 1:2 or 1:3 ratio).
- E) Culture medium (full medium) is changed every 2-3 days. The cells normally become confluent within 7 days (when split with a ratio of 1:3).

Related products

Quick Coating Solution	cAP-01	240ml	Angio-Proteomie
Smooth Muscle Cells (SMCs) Growth Medium	cAP-24	500ml	Angio-Proteomie
Smooth Muscle Cells (SMCs) Basal Medium	cAP-24B	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
SMCs Growth Medium	cAP-24	500ml	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

Caution: Handling human tissue derived products is potentially bio-hazardous. Although each cell strain is tested negative for HIV, HBV and HCV DNA, diagnostic tests are not necessarily 100% accurate; therefore, proper precautions must be taken to avoid inadvertent exposure. Always wear gloves and safety glasses when working these materials. Never mouth pipette. We recommend following the universal procedures for handling products of human origin as the minimum precaution against contamination.