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Human Aortic Smooth Muscle Cells

Cat. No. ARP0021, 5×10^5 cells/vial

Description

Research on the Human Aortic Smooth Muscle Cells is essential to the study of aortic dissection, vascular calcification, arterial stiffness, hypertension-related remodeling, and transplant arteriopathy. The aorta is the largest artery and the main vessel that carries oxygenated blood from the left ventricle into the systemic circulation. All arteries in the systemic circulation arise from the aorta either directly (like the coronary or brachiocephalic arteries) or through its branches (e.g., femoral artery via the iliac arteries), distributing oxygenated blood to peripheral tissues and organs. Cells isolated from the aorta can be used in research on systemic circulation and vascular diseases, such as aortic aneurysm. The Human Aortic Smooth Muscle Cells are to be used with Human Aortic Smooth Muscle Cell Medium (Cat. No. ACM0021). This product is intended for laboratory in vitro use only. It is not intended for diagnostic, therapeutic, or clinical applications.

Specification

Cell Type: Muscle Cells

Tissue/Organ: Aorta

Disease: N/A

Species: Homo sapiens (Human)

Genetic Background: N/A

Markers: α-Smooth Muscle Actin (α-SMA)

Symbols: HASMC

Shipping & Storage

Shipping condition: Frozen on dry ice.

Storage condition: Liquid nitrogen (LN_2) cryopreservation.

Intended Use

This product is intended for laboratory in vitro use only. It is not intended for diagnostic, therapeutic, or clinical applications.

Culturing Guidance

Morphology: N/A

Growth Mode: N/A

Temperature: 37°C

Atmosphere: 5% CO_2

Unpacking and Storage Instructions

1. Visually inspect all packaging components for integrity and verify adequate dry ice.
   If any damage is observed, notify Ascent Technical Support immediately.
2. Prioritize transfer to liquid nitrogen vapor phase storage system (-130°C or below).
   Secondary option: -80°C mechanical freezer (short-term storage only).
   Always maintain temperature strictly below -65°C.

Disclaimer

Ascent Research endeavors to provide accurate and up-to-date product information. However, no warranties or representations are made regarding its completeness or reliability. References to scientific literature and patents are for informational purposes only, and the customer assumes sole responsibility for verifying their accuracy.

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This document was last updated on June 20, 2025.