

Rat Thoracic Aortic Smooth Muscle Cells

Cat. No. ARP0211, 1×10^6 cells/vial

Description

Research on the Rat Thoracic Aortic Smooth Muscle Cells is essential to the study of thoracic aortic aneurysm development, Marfan syndrome-related aortopathy, aortic dissection, age-related medial degeneration, and coarctation-induced vascular stiffening. The thoracic aorta is the superior section of the aorta, which is the main artery in the body. It mainly supplies oxygen-rich blood from the aortic valve to the chest, upper limbs, head, and neck. The Rat Thoracic Aortic Smooth Muscle Cells are to be used with Rat Thoracic Aortic Smooth Muscle Cell Medium (Cat. No. ACM0211). 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: Artery (thoracic aorta)

Disease: Normal

Species: *Rattus norvegicus* (Rat)

Genetic Background: N/A

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

Symbols: RTASMC

Shipping & Storage

Shipping condition: Frozen on dry ice.

Storage condition: Liquid nitrogen (LN_2) cryopreservation.

Intended Use

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Culturing Guidance



Morphology: Elongated fusiform or irregular

Growth Mode: Adherent

Temperature: 37°C

Atmosphere: 5% CO₂

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

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