

Rat Tracheal Smooth Muscle Cells

Cat. No. ARP0181, 5×10^5 cells/vial

Description

Research on the Rat Tracheal Smooth Muscle Cells is essential to the study of tracheomalacia, asthma-associated airway hyperreactivity, tracheal spasm disorders, and relapsing polychondritis-related collapse. The lungs are the central organs of the human respiratory system, responsible for gas exchange, delivering oxygen to the blood while removing waste (carbon dioxide). They are a pair of spongy, pinkish-gray organs located in the chest, with their surfaces covered by the pleura. The lungs are connected to the trachea through the bronchi, and their interiors are filled with alveoli, which provide a large surface area for efficient gas exchange during respiration. The Rat Tracheal Smooth Muscle Cells are to be used with Rat Tracheal Smooth Muscle Cell Medium (Cat. No. ACM0181). 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: Lung

Disease: Normal

Species: *Rattus norvegicus* (Rat)

Genetic Background: N/A

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

Symbols: RTSMC

Shipping & Storage

Shipping condition: Frozen on dry ice.

Storage condition: Liquid nitrogen (LN₂) cryopreservation.

Intended Use



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Culturing Guidance

Morphology: Elongated fusiform, 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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