

Rat Saphenous Vein Smooth Muscle Cells

Cat. No. ARP0217, 5×10^5 cells/vial

Description

Research on the Rat Saphenous Vein Smooth Muscle Cells is essential to the study of hypertension-induced venous remodeling, vein graft fibrosis, venous valve incompetence, and chronic venous hypertension. The great saphenous vein (GSV), also called the long saphenous vein, is the longest vein in the body. It is located in the lower limb and travels up the inner side of the leg and thigh. Its primary function is to collect deoxygenated blood from the superficial tissues of the lower limb and assist in venous return to the heart. The common GSV disorder is varicose veins, often related to valve insufficiency, prolonged standing, and other circulatory issues. The Rat Saphenous Vein Smooth Muscle Cells are to be used with Rat Saphenous Vein Smooth Muscle Cell Medium (Cat. No. ACM0217). 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: Vein (great saphenous vein)

Disease: Normal

Species: *Rattus norvegicus* (Rat)

Genetic Background: N/A

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

Symbols: RSVSMC

Shipping & Storage

Shipping condition: Frozen on dry ice.

Storage condition: Liquid nitrogen (LN₂) cryopreservation.

Intended Use



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Culturing Guidance

Morphology: 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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