

Rat Colonic Smooth Muscle Cells

Cat. No. ARP0229, 5×10^5 cells/vial

Description

Research on the Rat Colonic Smooth Muscle Cells is essential to the study of slow-transit constipation, Hirschsprung's disease, IBS-associated dysmotility, megacolon, and post-surgical motility disorders. The intestine, also known as the bowel, is a long, muscular tube that extend from the stomach to the anus. It plays a crucial role in the digestive system, with its primary functions being food digestion and nutrient absorption. The intestine is divided into two main sections: the small intestine and the large intestine, each contributing to different stages of digestion and waste processing. The Rat Colonic Smooth Muscle Cells are to be used with Rat Colonic Smooth Muscle Cell Medium (Cat. No. ACM0229). 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: Intestine

Disease: Normal

Species: *Rattus norvegicus* (Rat)

Genetic Background: N/A

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

Symbols: RSCMC

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

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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