

Rat Nucleus Pulposus Cells

Cat. No. ARP0319, 5×10^5 cells/vial

Description

Research on the Rat Nucleus Pulposus Cells is essential to the study of disc degeneration, tissue engineering and cell therapy for spine disc disorders. The intervertebral disc is a fibrocartilaginous structure located between the vertebrae. It consists of an outer fibrous ring (annulus fibrosus) and a gel-like core (nucleus pulposus). It acts as a shock absorber to maintain the flexibility and stability of the spine. Degeneration or external trauma can lead to disc herniation, causing symptoms such as pain or numbness. The Rat Nucleus Pulposus Cells are to be used with Rat Nucleus Pulposus Cell Medium (Cat. No. ACM0319). This product is intended for laboratory in vitro use only. It is not intended for diagnostic, therapeutic, or clinical applications.

Specification

Cell Type: N/A

Tissue/Organ: Intervertebral disc

Disease: Normal

Species: *Rattus norvegicus* (Rat)

Genetic Background: N/A

Markers: Collagen II

Symbols: RNPC

Shipping & Storage

Shipping condition: Frozen on dry ice.

Storage condition: Liquid nitrogen (LN₂) cryopreservation.

Intended Use

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Culturing Guidance

Morphology: Fusiform or polygonal, 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

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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