

# Mouse Nucleus Pulposus Cells

Cat. No. ARP0562,  $5 \times 10^5$  cells/vial

## Description

Research on the Mouse 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 Mouse Nucleus Pulposus Cells are to be used with Mouse Nucleus Pulposus Cell Medium (Cat. No. ACM0562). 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: Mus musculus (Mouse)

Genetic Background: N/A

Markers: Collagen II

Symbols: MNPC

## Shipping & Storage

Shipping condition: Frozen on dry ice.

Storage condition: Liquid nitrogen (LN<sub>2</sub>) cryopreservation.

## Intended Use

This product is intended for laboratory in vitro use only. It is not intended for diagnostic, therapeutic, or clinical applications.



## Culturing Guidance

Morphology: Fusiform or polygonal, Irregular

Growth Mode: Adherent

Temperature: 37°C

Atmosphere: 5% CO<sub>2</sub>

## 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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