

M-1

Cat. No. ARI0074, 1×10^6 cells/vial

Description

M-1 cells are derived from the normal kidney tissue of tg(SV40E)Bri7 transgenic mice and contain integrated SV40 viral DNA. They keep some common characteristics with the cells of the cortical collecting duct (CCD), including typical morphology and expression of CCD-specific antigens. Otherwise, most M-1 cells exhibit features of either intercalated cells or principal cells, the two major cell types of the cortical collecting duct. A subset of 5 - 10% of the population displays a mixed phenotype, expressing markers of both cell types. When cultured on permeable supports, M-1 cells are capable of forming cavity-like structures and exhibit a measurable negative transepithelial potential difference, indicative of functional polarization.

Specification

Cell Type: Epithelial cell

Tissue/Organ: Kidney

Derived from Site: Cortical collecting duct

Disease: Normal

Species: Mus musculus (Mouse)

Genetic Background: N/A

Marker: N/A

Sex of Donor: N/A

Age: N/A

Immortalization Method: Simian virus 40 (SV40)

Shipping & Storage

Shipping condition: Frozen on dry ice.

Storage condition: Liquid nitrogen (LN₂) 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: Epithelial-like

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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