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Human Amniotic Epithelial Cells

Cat. No. ARP0129, 5×10⁵ cells/vial

Description

Research on the Human Amniotic Epithelial Cells is essential to the study of lysosomal diseases, neonatal hypoxic-ischemic encephalopathy, lung/brain developmental disorders, autoimmune conditions (e.g., multiple sclerosis), corneal injuries, and intrauterine adhesions owing to their pluripotent differentiation potential and anti-inflammatory effects. The amnion is a thin, transparent membrane that covers and protects the developing embryo/fetus during pregnancy. It is the innermost fetal membrane and is composed of a single layer of tightly connected epithelial cells. Unlike tissues that integrate into the embryo, the amnion forms an external sac that does not penetrate the embryonic body. This membrane plays multiple vital roles in fetal development by providing nutrients, facilitating gas exchange, removing metabolic waste, and offering immune protection to the growing baby. The Human Amniotic Epithelial Cells are to be used with Human Amniotic Epithelial Cell Medium (Cat. No. ACM0129). This product is intended for laboratory in vitro use only. It is not intended for diagnostic, therapeutic, or clinical applications.

Specification

Cell Type: Epithelial Cells
Tissue/Organ: Embryo (amnion)
Disease: N/A
Species: Homo sapiens (Human)
Genetic Background: N/A
Markers: Cytokeratin 18, Cytokeratin 19
Symbols: HAEC

Shipping & Storage

Shipping condition: Frozen on dry ice.
Storage condition: Liquid nitrogen (LN_2) cryopreservation.

Intended Use

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Culturing Guidance

Morphology: Epithelial-like

Growth Mode: N/A

Temperature: 37°C

Atmosphere: 5% CO_2

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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