

# Rat Islet Cells

Cat. No. ARP0274,  $5 \times 10^5$  cells/vial

## Description

Research on the Rat Islet Cells is essential to the study of type 1 diabetes (autoimmune destruction), type 2 diabetes ( $\beta$ -cell dysfunction), islet transplantation rejection, hyperinsulinemic hypoglycemia, and islet amyloid deposition. The pancreas is an important gland in the digestive system. It is located in the abdomen, behind the stomach. It produces digestive enzymes to assist in breaking down food, and secretes insulin and glucagon to regulate blood glucose. Researchers often study its functions for endocrine disorders, such as type 1 and type 2 diabetes. The Rat Islet Cells are to be used with Rat Islet Cell Medium (Cat. No. ACM0274). 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: Pancreas

Disease: Normal

Species: *Rattus norvegicus* (Rat)

Genetic Background: N/A

Markers: N/A

Symbols: RIC

## 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: Island-like cluster formation

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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This document was last updated on June 20, 2025.