

Human Intestinal Mast Cells

Cat. No. ARP1210, 5×10^5 cells/vial

Description

Human intestinal mast cells are primary cells isolated from intestinal tissue within the digestive system. These cells are prepared from native tissue and cryopreserved at an early passage stage to help retain physiologically relevant characteristics for in vitro studies.

The intestine is central to digestion, nutrient absorption, and mucosal barrier defense. Within this environment, mast cells support local immune balance by sensing luminal and tissue-derived signals and responding rapidly to perturbations that affect epithelial integrity and mucosal homeostasis.

Intestinal mast cells are key effector cells in immediate hypersensitivity and allergic responses. They release histamine, proteases, cytokines, and lipid mediators that influence vascular permeability, epithelial function, leukocyte recruitment, and communication with neighboring immune and stromal cells. In the intestinal mucosa, they contribute to immune surveillance while also participating in inflammatory regulation during infection or tissue stress.

These cells are well suited for studies of intestinal mucosal immunity, allergy and hypersensitivity, inflammation and cytokine signaling, and host-pathogen interactions. For additional product details or donor information, please contact Ascent Research.

Specification

Cell Type: Immune cell

Tissue/Organ: Intestine

Disease: N/A

Species: Homo sapiens (Human)

Genetic Background: N/A

Markers: CD117, FcεR1a, chymase, and tryptase

Symbols: N/A



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: N/A

Growth Mode: Suspension

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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