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Rat Pituitary Cells

Cat. No. ARP0275, 5×10^5 cells/vial

Description

Research on the Rat Pituitary Cells is essential to the study of pituitary adenomas (e.g., prolactinomas), hypopituitarism, traumatic brain injury-induced hormone deficiency, Sheehan's syndrome models, and dopamine agonist resistance studies. The pituitary gland, or hypophysis, is a small, pea-sized gland located at the base of the brain, below the hypothalamus. It is in the central place of the endocrine system through the secretion of key hormones, such as growth hormones, follicle-stimulating hormone, luteinizing hormone, thyroid-stimulating hormone, adrenocorticotropic hormone, prolactin, antidiuretic hormone, and oxytocin. Dysfunction of the pituitary gland may cause disorders in growth, reproduction, and metabolism etc. The Rat Pituitary Cells are to be used with Rat Pituitary Cell Medium (Cat. No. ACM0275). 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: Pituitary gland

Disease: Normal

Species: Rattus norvegicus (Rat)

Genetic Background: N/A

Markers: LH, FSH, PRL

Symbols: RPC

Shipping & Storage

Shipping condition: Frozen on dry ice.

Storage condition: Liquid nitrogen (LN_2) 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_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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