

Ready-to-use Human iPSC-Derived Cardiac Organoids

Ready-to-use Human iPSC-Derived Intestine Organoids

Cat. No. : CIPO-IWL003K

Description

Human iPSC-Derived Intestine Organoids are differentiated from hESC or iPSCs using Human iPSC-Derived Intestine Organoid Differentiation Kit (Ca. No. RIPO-IWM005K). Intestine organoids are three-dimensional in vitro models with a cellular composition and structural organization that is representative to the human intestine regions. This kit can produce 96 cerebral organoids in four steps. Differentiation was carried out by forming EBs from PSC at an ultra-low attachment U shape 96 well plate, and then changing the medium according to the instructions. Organoids generated using Human iPSC-Derived Intestine Organoid Differentiation Kit (Ca. No. RIPO-IWM005K) feature various types of cells, including intestine epithelium cells, mesenchyme cells, enterocytes, Paneth cells, goblet cells, etc. These intestine organoids show intestine crypt like structure, Villi and Microvilli like structure, as well as normal intestinal function validated by the absorption of fatty acid and glucose.

Product Specification

The live organoids are ready-to-use organoids that are delivered in shipping medium and must go through a 48h recovery process according to instruction.

Origin	Human iPSC (ATCC-HYR0103)
Property	Suspension
Incubation	37 °C with 5% CO ₂
Biosafety Level	2

Product Information

Name	Shipment	Storage
Live intestine organoids	4 ~ 25 °C	Please recover the live organoid immediately upon receipt.
Intestine organoid recovery medium	4 ~ 25 °C	Please use immediately upon receipt.

Materials Required for Organoid Culture

- Ultra-Low Adherent 6 Well plate
- Human iPSC-Derived Intestine Organoid Maintenance Kit (Cat. RIPO-IWM006)

Equipment Required

- Incubator (37°C, 5% CO₂)
- Orbital shaker (2 mm shaking diameter)
- Biosafety cabinet

Recovery

- Add 5 ml intestine organoid recovery medium to each well of 6 Well Ultra-Low Attachment Plate.
- Transfer the live intestine organoid in the 6 Well Ultra-Low Attachment Plate with 24 organoids per well. Please try to avoid transferring the shipping medium along with the organoid into the well.
- Put the plate on an orbital shaker (as shown figures) with the speed of 100 rpm. Incubate at 37° C, 5% CO₂ for 48 h.



Culture

- After 48 h of recovery, change the recovery medium in each well to 5ml Cardiac organoid maintenance medium (Cat. RIPO-IWM006) per well
- Keep the plate an orbital shaker (as shown figures) with the speed of 100 rpm. Incubate at 37° C, 5% CO₂.
- Change the whole medium every 3 days.

Note: Organoids cannot be passaged or cryopreserved.

Related Products

Product	Cat. No.
Human iPSC-Derived Intestinal Organoid Maintenance Kit	RIPO-IWM006