

Ready-to-use Human iPSC-Derived Cerebral Organoids

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Cat. No. : CIPO-BWL001K

Description

Human iPSC-Derived Cerebral Organoids are differentiated from iPSCs (ATCC-HYR0103) by using Human iPSC-Derived Cerebral Organoid Differentiation Kit (Ca. No. RIPO-BWM001K). Cerebral organoids are three-dimensional in vitro models with a cellular composition and structural organization that resembles to the human cerebral regions. Organoids generated using Human iPSC-Derived Cerebral Organoid Differentiation Kit (Ca. No. RIPO-BWM001K) feature various types of neurons (including TH positive neurons) and glia cells (including OLIG2 and IBA1 positive cells). These cerebral organoids show spontaneous electrophysiological activity and response to a-syn PFFs induced toxicity, representing the functionality of the organoids.

Product Specification

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

Origin	Human iPSC (ATCC-HYR0103)
Property	Suspension
Incubation	37 °C with 5% CO ₂
Biosafety Level	1

Product Information

Name	Shipment	Storage
Live cerebral organoids	4 ~ 25 °C	Please recover the live organoid immediately upon receipt.
Cerebral organoid maintenance medium	4 ~ 25 °C	Please use immediately upon receipt.

Materials Required for Organoid Culture

- Ultra-Low Adherent 6 Well plate
- Human iPSC-Derived Cerebral Organoid Maturation and Maintenance Kit (Cat. RIPO-BWM003)

Equipment Required

- Incubator (37°C, 5% CO₂)
- Orbital shaker (20 mm shaking diameter)
- Biosafety cabinet

Recovery

- Add 5 ml cerebral organoid maintenance medium (Cat. RIPO-BWM003) to each well of 6 Well Ultra-Low Attachment Plate.
- Transfer the live cerebral organoid in the 6 Well Ultra-Low Attachment Plate with 24 organoids per well (maximum). 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, observe the morphology of the cerebral organoid and replace each well with 5 ml of fresh cerebral organoid maintenance medium (Cat. RIPO-BWM003).
- Keep the plate on 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 Cerebral Organoid Maturation and Maintenance Kit	RIPO-BWM003