Ready-to-use Human iPSC-Derived Mature Cerebral Organoids 100 days+

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Cat. No. : CIPO-BWL002K

Description

Human iPSC-derived cerebral organoids are generated from iPSCs (ATCC-HYR0103) using the Human iPSC-Derived Cerebral Organoid Differentiation Kit (Cat. No. RIPO-BWM001K). These 3D in vitro models mimic the cellular composition and structural organization of human cerebral regions, containing diverse neuronal subtypes (including TH positive cells) and glial cells (including Olig2 and GFAP positive cells). They also respond to tau PFF-induced toxicity, highlighting their functional relevance for disease modeling and drug testing.

Product Specification

The live organoids are provided as ready-to-use organoids shipped in transport medium. Upon receipt, they must undergo a 48 hour recovery process according to the provided instructions before experimental use.

Origin	Human iPSC (ATCC-HYR0103)
Property	Suspension culture
Incubation	37 ℃ with 5% CO_2
Biosafety Level	1

Product Information

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

Materials Required for Organoid Culture

- Ultra-Low Adherent 6 Well plate（Cat. CP-21）
- Human iPSC-Derived Cerebral Organoid Maturation and Maintenance Kit (Cat. RIPO-BWM003)

Equipment Required

- Incubator (37°C, 5% CO_2)
- Orbital shaker (20 mm shaking diameter)
- Biosafety cabinet

Recovery

a. Add 5 ml cerebral organoid maintenance medium (Cat. RIPO-BWM003) to each well of 6 Well Ultra-Low Attachment Plate.

b. 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.

c. 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

a. 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).

b. Keep the plate an orbital shaker (as shown figures) with the speed of 100 rpm. Incubate at 37° C, 5% CO_2.

c. 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**