

Cryopreserved Human iPSC-Derived Cerebral Organoids

Cryopreserved Human iPSC-Derived Cerebral Organoids

Cat. No. : CIPO-BWL001KC

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 °C with 5% CO ₂
Biosafety Level	1

Product Information

Name	Shipment	Storage
Cryopreserved Human iPSC-Derived Cerebral Organoids	-70°C	Please recover the live organoid immediately upon receipt.
Cerebral Organoid Recovery Medium	-70°C	Please use immediately upon receipt.

Materials Required for Organoid Culture

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

Equipment Required

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

Experimental Procedure

1. Upon receiving the organoids, first check the cryotubes for any signs of damage, leakage, or turbidity in the transport solution. Gently invert the cryotubes to ensure that the organoids settle at the bottom. Visually inspect the organoids to confirm they are intact and not broken or disintegrated. If any issues are detected, contact the supplier immediately.

Recovery

1. Take the cryopreserved organoids out from the refrigerator. Put the tubes into a water bath of 37°C for 1 min. (Shake the tubes gently with hands to accelerate thawing the organoids.)
2. Verify the organoids are fully thawed.
3. Transfer the organoids into the Ultra-Low Adherent 48 Well plate with in maximum 24 organoids per well.
4. Add 500 ul of recovery medium in each well.



Note: Organoids cannot be passaged or cryopreserved.

Related Products

Product	Cat. No.
Human iPSC-Derived Cerebral Organoid Maturation and Maintenance Kit	RIPO-BWM003
Cerebral organoid cryopreservation kit	RIPO-BWM006