



Product Description

iPSC-Derived Islet Organoids (ilslet) represent advanced 3D pancreatic models generated from human induced pluripotent stem cells. These organoids closely recapitulate the architecture and function of native pancreatic islets, containing insulin-producing β cells, glucagon-secreting α cells, and somatostatin-producing δ cells. Quality is assessed by expression of INSULIN, GLUCAGON, and NKX6.1, along with functional validation of glucose-stimulated insulin secretion, ensuring physiologically relevant performance.

We are developing a panel of ilslet organoids from iPSCs derived from patients with diabetes and other metabolic disorders, enabling disease-specific modeling and comparative studies.

ilslet organoids provide a powerful tool for investigating islet biology, diabetes mechanisms, drug discovery, transplantation research, and regenerative therapy development, supporting both fundamental research and translational applications in metabolic disease.

Stability and Storage

Upon receipt, immediately transfer the cells from dry ice to liquid nitrogen storage, and maintain them in liquid nitrogen until ready for experimental use.

Shipping

Cryopreserved cells are shipped on dry ice. Live cells are shipped at ambient temperature.

Product Use

The products are for research use only. They are not approved for human or animal use, or for application in in vitro diagnostic procedures.

Contact Us

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iPSC-Derived Islet Organoids Kit (ilslet) (Normal, Diseased, Engineered)

Quality Control:

Catalog Number	ILC-2023
Organism	<i>Homo sapiens</i>
Donor/Tissue/Medical History	See CoA for the detailed information
Product Format	Cryopreserved, or Live Cell Culture
Culture Properties	Suspension
Total Cell Number	400 organoids /vial
Viability	>90%
Human Pathogen	Negative
Bacterial, Fungi, Mycoplasma	Negative
Biomarker Expression	Positive (>80% of Insulin+)

Representative Dataset:

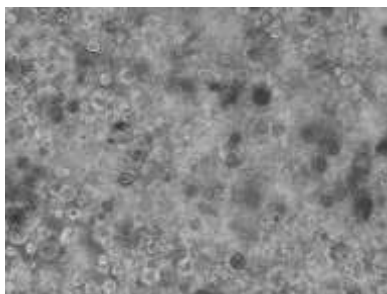


Figure 1. Bright Field Image of Islet Organoids.

Cell Thawing and Culture Protocol:

1. Thaw the cells rapidly in a 37 °C water bath.
2. Transfer the thawed cells into a 15 mL conical tube.
3. Gently add 2 mL of ilslet Culture Media (Cat# ILC0023M) to the tube.
4. Centrifuge at 100 × g for 2 minutes at room temperature.
5. Carefully aspirate the supernatant.
6. Gently resuspend the cell pellet in 2 mL of ilslet Culture Medium.
7. Seed the organoids onto Non-treated TC plates (typically, one vial yields 1 well of a 6-well plate).
8. Gently distribute the organoids evenly across the wells.
9. Incubate overnight at 37 °C in a CO₂ incubator.
10. Half change media daily.

Related Products:

ilslet Culture Medium (Catalog Number: ILC0023M) is specifically formulated to support iPSC-derived Islet Organoid (ilslet) recovery and maintenance.