



Product Description

iPSC-Derived Beta Cells (iBeta) offer a renewable and physiologically relevant source of insulin-producing pancreatic cells for diabetes research and translational applications. Generated from human induced pluripotent stem cells, iBeta cells mimic the identity and function of primary pancreatic β cells. Each batch is quality-controlled through the expression of PDX1 and NKX6.1, as well as functional validation of insulin and C-peptide secretion in response to glucose stimulation, ensuring consistency and reliability.

We are establishing a panel of iBeta cells from iPSCs derived from patients with diabetes and related metabolic disorders, providing a powerful platform for disease-specific modeling.

iBeta cells enable studies in diabetes pathogenesis, drug screening, regenerative medicine, and cell replacement therapy development, accelerating progress toward precision medicine for metabolic diseases.

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 Beta Cells (iBeta) (Normal, Diseased, Engineered)

Quality Control:

Catalog Number	ILC-2018
Organism	<i>Homo sapiens</i>
Donor/Tissue/Medical History	See CoA for the detailed information
Product Format	Cryopreserved, or Live Cell Culture
Culture Properties	Adherent
Total Cell Number	1x10 ⁶ cells/vial
Viability	>90%
Human Pathogen	Negative
Bacterial, Fungi, Mycoplasma	Negative
Biomarker Expression	Positive (>80% of Insulin+)

Representative Dataset:

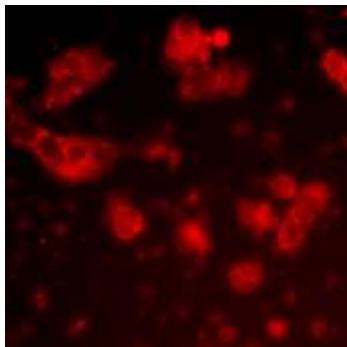


Figure 1. Antibody Staining Images of iBeta cells (Red: Insulin).

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 iBeta Culture Media (Cat# ILC0018M) to the tube.
4. Centrifuge at 200 \times g for 2 minutes at room temperature.
5. Carefully aspirate the supernatant.
6. Resuspend the cell pellet in 2 mL of iBeta Culture Medium.
7. Seed the cells onto Matrigel coated plates (typically, one vial yields 1 well of a 6-well plate).
8. Gently distribute the cells evenly across the wells.
9. Incubate overnight at 37 °C in a CO₂ incubator.
10. Half change media daily.

Related Products:

iBeta Culture Medium (Catalog Number: ILC0018M) is specifically formulated to support iPSC-derived Beta Cell (iBeta) recovery and maintenance.