



Product Description

iPSC-Derived Mesenchymal Stem Cells (iMSCs) provide a consistent and renewable source of multipotent stromal cells for research and therapeutic development. Generated from human induced pluripotent stem cells, iMSCs closely resemble primary MSCs in morphology, phenotype, and differentiation potential. Each lot is rigorously validated by expression of CD90 and CD73, confirming mesenchymal identity, and tested for trilineage differentiation capacity into adipocytes, osteoblasts, and chondrocytes.

We are developing a panel of iPSC-derived MSCs from patients with relevant diseases, enabling disease-specific modeling and translational studies. iMSCs are ideally suited for tissue regeneration studies, immune modulation assays, drug screening, gene editing applications, and cell therapy development, offering a standardized and scalable alternative to donor-derived MSCs while ensuring reproducibility and reliability in both basic and applied research.

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 Mesenchymal Stem Cell Kit (iMSCs) (Normal, Diseased, Engineered)

Quality Control:

Catalog Number	ILC-2013
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 (>90% of CD90+/CD73+)

Representative Dataset:

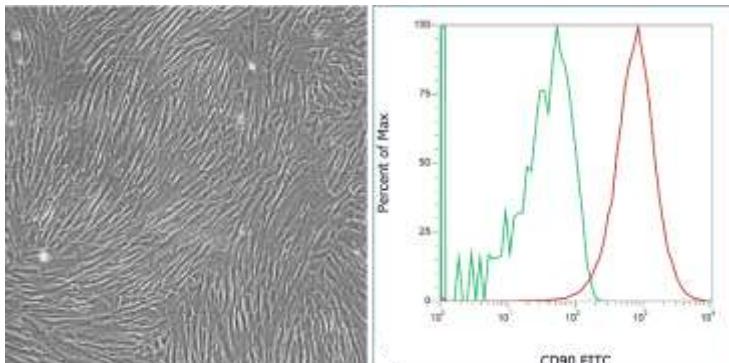


Figure 1. Bright Field Image of iMSCs (Left) and FACS data (Right: CD90).

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 iMSC Culture Media (Cat# ILC0013M) to the tube.
4. Centrifuge at 200 × g for 2 minutes at room temperature.
5. Carefully aspirate the supernatant.
6. Resuspend the cell pellet in 2 mL of iMSC 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. Change media daily until the cells grow confluent.

Related Products:

iMSC Culture Medium (Catalog Number: ILC0013M) is specifically formulated to support iPSC-derived MSC Cell (iMSC) recovery and expansion.