



### Product Description

iPSC-Derived Hematopoietic Stem Cells (iHSCs) provide a renewable and standardized source for studying blood development, immune function, and hematological disorders. Generated from human induced pluripotent stem cells, these HSCs faithfully mimic early hematopoietic precursors and serve as a versatile tool for both basic and translational research. Each lot is rigorously characterized by robust CD34 or CD43 expression and validated for their ability to further differentiate into multiple hematopoietic lineages, including NK cells, T cells, macrophages, and monocytes, and microglia lineages.

We are building a panel of iPSC-derived HSCs (iHSCs) from patients with hematopoietic diseases, creating powerful disease-specific models for mechanistic studies and therapeutic development.

iPSC-derived HSCs (iHSCs) are well-suited for disease modeling, immunology studies, drug screening, gene editing, and regenerative medicine applications, providing a reliable platform for advancing hematology 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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## Product Datasheet: iPSC-Derived Hematopoietic Progenitor Cell (HPC) Kit (Normal, Diseased, Engineered)

### Quality Control:

<b>Catalog Number</b>	<b>ILC-2006</b>
<b>Organism</b>	<i>Homo sapiens</i>
<b>Donor/Tissue/Medical History</b>	See CoA for the detailed information
<b>Product Format</b>	Cryopreserved, or Live Cell Culture
<b>Culture Properties</b>	Suspension
<b>Total Cell Number</b>	1x10 <sup>6</sup> cells/vial
<b>Viability</b>	>80%
<b>Human Pathogen</b>	Negative
<b>Bacterial, Fungi, Mycoplasma</b>	Negative
<b>Biomarker Expression</b>	Positive (>80% of CD34+, or CD43+, see CoAs for different batches)
<b>Hematopoietic lineage Differentiation</b>	CD34+ can further differentiate into NK, T cells; CD43+ can further differentiate into monocyte, macrophage, or microglial cells

### Representative Data:

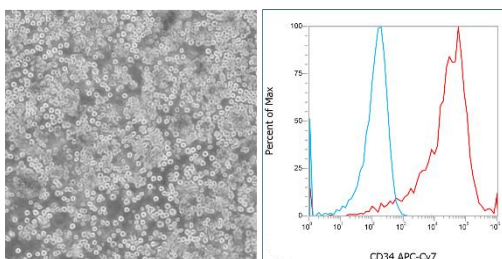


Figure 1. Bright Field Image of iHSC (Left) and FACS analysis using CD34 antibody (Right).

### 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 iHSC Culture Media (Cat# ILC0006M) 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 iHSC Culture Media.
7. Seed the cells onto Non-treated TC 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 CO<sub>2</sub> incubator.
10. Half change media every other day.

### Related Products:

iHSC Culture Medium (Catalog Number: ILC0006M) is specifically formulated to support iPSC-derived Hematopoietic Stem Cells (iHSCs) recovery and expansion.