iPSC-Derived Erythroid Cells (Normal, Diseased, Engineered)

Product Description

iPSC-Derived Erythroid Cells (iErythroids) offer a renewable and standardized platform for studying red blood cell development, blood disorders, and therapeutic strategies. Generated from human induced pluripotent stem cells, iErythroids recapitulate the molecular and functional features of primary erythroid progenitors and maturing red blood cells. Each lot is quality-verified by robust expression of CD71 and glycophorin A (CD235a), confirming erythroid lineage identity and reproducibility.

We are developing a panel of iPSC-derived erythroid cells (iErythroids) from patients with blood diseases, providing disease-specific models for mechanistic studies and translational research.

iPSC-derived erythroid cells (iErythroids) are ideally suited for studying erythropoiesis, modeling genetic blood disorders such as sickle cell disease and thalassemia, screening therapeutics, gene editing validation, and regenerative medicine approaches, offering a consistent and scalable tool 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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Quality Control:

Catalog Number	**ILC-2012**
Organism	*Homo sapiens*
Donor/Tissue/Medical History	See CoA for the detailed information
Product Format	Cryopreserved, or Live Cell Culture
Culture Properties	Suspension
Total Cell Number	1x10^6 cells/vial
Viability	>90%
Human Pathogen	Negative
Bacterial, Fungi, Mycoplasma	Negative
Biomarker Expression	Positive (>90% of CD71+/CD235a+)

Representative Dataset:

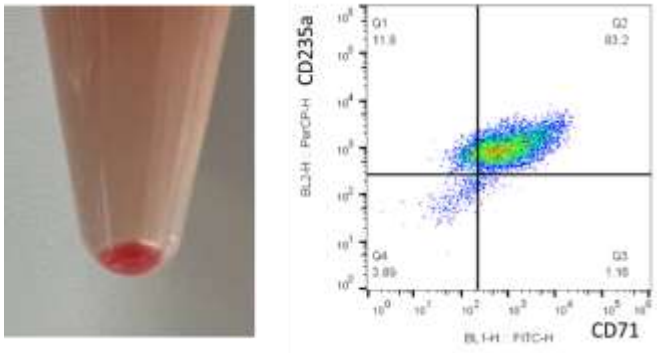

Figure 1. Color of iErythroid (Left) and FACS analysis result using CD235a and CD71 (Right).

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 iErythroid Culture Media (Cat# ILC0012M) 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 iErythroid Culture Medium.
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_2 incubator.
10. Half change media every other day.

Related Products:

iErythroid Culture Medium (Catalog Number: ILC0012M) is specifically formulated to support iPSC-derived Erythroid Cell (iErythroid) recovery and maintenance.