iPSC-Derived Astrocyte Kit
(Normal, Diseased, Engineered)

Product Description

iPSC-Derived Astrocytes provide a physiologically relevant cell model for studying neural function and disease. Generated from high-quality human induced pluripotent stem cells, these astrocytes are essential glial cells that play critical roles in synaptic support, neurotransmitter regulation, and neuronal survival. Each lot is thoroughly characterized by strong expression of GFAP and S100B, ensuring purity and reliability.

We are building a diverse panel of astrocytes derived from iPSCs from patients with neurodegenerative diseases, offering powerful tools to study disease-specific phenotypes and mechanisms.

iPSC-derived astrocytes (iAstrocytes) are ideally suited for neurodegenerative disease modeling, neuroinflammation studies, neuron–glia interaction assays, neurotoxicity testing, and drug discovery. Quality-controlled and ready-to-use, our astrocytes provide consistent performance and a robust platform for advancing neuroscience research and therapeutic development.

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-2003**
Organism	*Homo sapiens*
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 GFAP+, S100b+)

Representative Dataset:

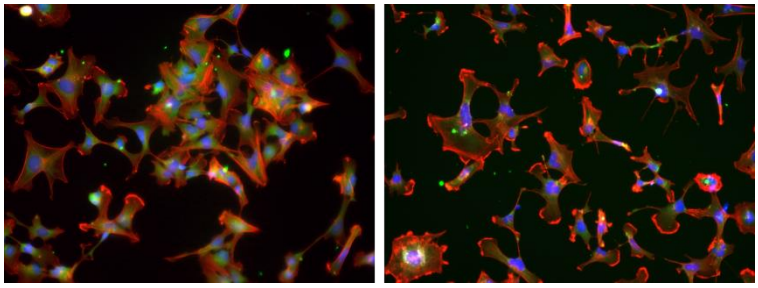

Figure 1. Antibody staining images of iAstrocytes (Left, Green: GFAP; Red: Phalloidin; Blue: DAPI; Right, Green: S100B, Red: Phalloidin; Blue: DAPI).

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 iAstrocyte Culture Medium (Cat# AU0003M) 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 4 mL of iAstrocyte Culture Media.
7. Seed the cells onto Matrigel-coated plates (typically, one vial yields 2 wells 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. Change media daily until the cells grow confluent.
11. Passage the cells using Accutase.
12. Replate the cells on Matrigel coated plate at 0.5 million cells per well of a 6-well plate.

Related Products:

iAstrocyte Culture Medium (Catalog Number: AU0003M) is specifically formulated to support iPSC-derived astrocytes (iAstrocytes) recovery and expansion.