



#### Product Description

iPSC-Derived Neural Progenitor Cells (NPCs) provide a reliable and versatile platform for neuroscience research and drug discovery. Derived from high-quality human induced pluripotent stem cells, our NPCs are rigorously characterized by robust expression of Nestin, a canonical neural progenitor marker, and validated for their ability to further differentiate into both neuronal and glial lineages. This ensures consistency, reproducibility, and confidence in downstream applications.

We are actively developing a panel of NPCs derived from iPSCs from patients with neurodegenerative diseases, creating a powerful resource to model disease mechanisms and enable translational research.

iPSC-derived NPCs are ideal for studying neurodevelopment, disease progression, neurotoxicity, drug screening, and regenerative medicine approaches. Each lot is quality-controlled, expansion-ready, and optimized to support advanced neural 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 Neural Progenitor Cell (NPC) Kit (Normal, Diseased, Engineered)

#### Quality Control:

<b>Catalog Number</b>	ILC-2002
<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>	Adherent
<b>Total Cell Number</b>	2x10 <sup>6</sup> cells/vial
<b>Viability</b>	>90%
<b>Human Pathogen</b>	Negative
<b>Bacterial, Fungi, Mycoplasma</b>	Negative
<b>Biomarker Expression</b>	Positive (>95% of Nestin+)
<b>Neuron and Glial Differentiation</b>	Pass

#### Representative Dataset:

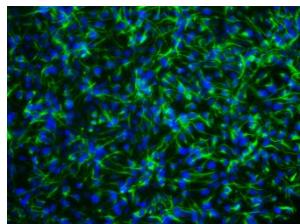


Figure 1. Antibody Staining Image of iNPC (Green: Nestin; Blue: DAPI).

#### 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 iNPC Culture Media (Cat# ILC0002M) 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 iNPC 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 CO<sub>2</sub> 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 1 million cells per well of a 6-well plate. Avoid lower seeding densities, as they may lead to spontaneous differentiation.

#### Related Products:

iNPC Culture Medium (Catalog Number: ILC0002M) is specifically formulated to support iPSC-derived neural progenitor cell (iNPC) recovery and expansion.