Alphabioregen

Moving Research From 2D To 3D

Human Neurons

Product Name	**Human Neuron Cells**
Catalog Number	HNC001
Size	1mL
Storage	Liquid Nitrogen
Cell Number:	Frozen Vial (500.000 per vial)
Product Format:	Frozen

Caution: Proper precautions must be taken to avoid exposure. Always wear proper protective equipment (Gloves, safety glasses, etc.) when handling these materials. We recommend following the universal procedures for handling products of human origin as the minimum precaution against contamination. The listed dilutions are for recommendation only and the ender users should optimize the final conditions.

General Information

HNCs (HNC001) are initiated by digestion of minced brain cortical tissue with collagenase. HNCs are separated from the mixture of cell populations and offered at passage 3 in a frozen vial. Human Neurons Growth Medium contains 10% serum and growth supplements, Cat.#HNM 001 is recommended for cell culture and these cells have a minimum average population doubling capacity > 6 when cultured following the detailed protocol described below.

Characterization of the cells

The cells stain positively for a number of neuronal markers:
Neurofilament protein Positive
Neuron specific enolase (NSE) Positive
The cells are negative for
Glial fibrillary acidic protein (GFAP) Negative
Myelin basis protein (MBP) Negative
HNCs are negative for HIV-1, HBV, HCV, and mycoplasma.

Product Use: HNCs are for research use only.
Shipping: Frozen Vials in Dry Ice packages

Handling of Arriving Cells

When you receive the cells in a frozen vial, you can transfer the vial of cells into a -80ºC freezer for short period storage or a liquid nitrogen tank for long term storage.

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*All cryovials should be stored in liquid nitrogen immediately upon arrival, unless thawed for cells culture.

Frozen Vial:

1) Coating T25 flasks. Add 2 ml AlphaBioCoat (Cat.#AC001) into a T25 flask and ensure entire interior surface is coated with the solution. After 30 minutes, dispose of AlphaBioCoat (Cat.#AC001) by aspiration. Gently rinse and aspirate flask with Phosphate Buffer Solution (Cat.#1XPBS-001). The flask is now ready for use (no need for overnight incubation when coated with Cat.#AC001).
2) If you are using the coated flask the same day, add about 4 ml of Human Neurons Growth media Cat.#HNM001 to the coated flask. If the media changes color from pink to yellow, aspirate and discard the media. Add 4ml of fresh media to the coated flask.
3) Thaw the cells in a 37°C water bath. Once you see a small amount of ice left in the vial, spray the vial with 70% Ethanol and wipe it down.
4) Transfer the vial into your Biosafety cabinet.
5) Using a 2 or 5ml pipet, pipet the cells out of the vial.
6) Transfer your cell suspension in to your coated plate that have the 4 ml media in it.
7) You should have a total working volume of 5ml of cell suspension in the flask; close the cap. Make sure cells are evenly distributed in the flask by moving the flask left and right five times. Move it up and down for an additional five times.
8) Place flask in a 37°C incubator with 5% C02. If flask is not vented, please loosen cap.
9) Change media after 48 hours.
10) For assay or to induce quiescent cells, use Neurobasal Media (DMEM F-12/Neurobasal, Amino Acid) Cat.#HNM002
11) End of protocol