

Conditionally Immortalized Human Neuron Cells
ORDER INFORMATION

Name of Cells: Conditionally Immortalized Human Neuron Cells (**CI-HNCs**)
Catalogue Number: **cAP-0070**
Product Format: Frozen Vial
Cell Number: > 5 x 10⁵ cells/vial

General Information

CI-HNCs (**cAP-0070**) are selected from HNCs (**cAP-0036**) infected with lentiviruses expressing SV40 LT antigen under the control of Tet-On system resistant puromycin. CI-HNCs are maintained with proliferative capacity in the presence of Doxycycline^{NOTE1} in HNCs Growth Medium (contains 10% serum and growth supplements, cAP-34).

The cells are **positive** 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: CI-HNCs are for research use only^{NOTE3}

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 -80°C freezer for short-period storage or a liquid nitrogen tank for long-term storage. Thaw the cells in a 37°C water bath, and then quickly transfer the cells into a T75 flask with 15 ml MSCGM in the presence of 1µg/ml of Doxycycline and incubated overnight in a 37°C^{NOTE2} CO2 incubator and change the medium next day (15 ml complete MSCGM) and every other thereafter.

Subculture Protocol

- A) Pre-coating of T25 flasks: Add 2ml of Quick Coating Solution (**cAP-01**) into one T25 flask and make sure whole surface of the flask is covered with the coating solution. Five minutes later, dispose excessive Quick Coating Solution by aspiration and the flask is ready to be used (no need for overnight incubation when using Quick Coating Solution). Other extracellular matrix can be used including gelatin, collagen, and fibronectin and you are advised to test the conditions for using those materials in advance.
- B) Rinse the cells in T25 flask with 5ml HBSS (**Room Temperature, RT**) twice.
- C) Add 2ml of Trypsin/EDTA (**RT**) (cAP-23) into one T25 flask (make sure the whole surface of the T25 flask is covered with Trypsin/EDTA), and gently dispose the excessive Trypsin/EDTA solution **within 60 seconds** with aspiration.
- D) Leave the T25 flask with the cells at 37°C for extra 1-2 minute (the cells usually will detach from the surface within 1-2 minutes). You can monitor the cells under microscope and when most of cells become rounded up, hit the flask against the bench surface, and the cells will move on the surface of the flask when monitoring under microscope.
- E) Add 5ml Trypsin Neutralization Buffer and spin the cells down with 800g for 5 minutes.
- F) Re-suspend the cell pellet with 10 - 15ml of HNCs Growth Medium and the cell suspension is transferred directly into 2 or 3 pre-coated T25 flasks (5ml each, and the cells are sub-cultured at 1 : 2 to 1 : 3 ratios)
- G) Change medium every 2-3 days and cells usually become confluent within 7 days (when split at a 1:4 ratio).

NOTE 1: To minimize the effect of SV40 antigen LT for your studies, cells could be cultured in the absence Doxycycline for 3-5 days.

NOTE 2: Although wild type SV40 LT antigen is used for cell immortalization, we noticed that the immortalized cells are growing better at 33-34°C, we encourage the end users to switch to 33-34°C if cells are growing slower at 37°C.

NOTE 3: The purchase of this product conveys to the buyer the nontransferable right to use the purchased amount of the product and all replicates and derivatives for research purposes conducted by the buyer in his/her laboratory only (whether the buyer is an academic or for-profit entity). The buyer cannot sell or otherwise transfer (a) this product (b) its components or (c) materials made using this product or its components to a third party or otherwise use this product or its components or materials made using this product or its components for Commercial Purposes.

Related products

Quick Coating Solution	cAP-01	240ml	Angio-Proteomie
HNCs Growth Medium	cAP-34	500ml	Angio-Proteomie
HBSS w/o Ca ²⁺ , Mg ²⁺	cAP-11	100ml	Angio-Proteomie
Trypsin/EDTA Solution	cAP-23	100ml	Angio-Proteomie
Trypsin Neutralization Solution	cAP-28	100ml	Angio-Proteomie

Human Material Precaution: All tissues used for isolation are obtained under informed consent and conform to HIPAA standards to protect the privacy of the donor's personal health information. It is best to use caution when handling any human cells. We recommend that all human cells be accorded the same level of biosafety consideration as cells known to carry HIV. With infectious virus assays or viral antigen assays, even a negative test result may leave open the possible existence of a latent viral genome.

Biosafety Level: 2

Angio-Proteomie Warranty: The viability of Angio-Proteomie' cell products is warranted for 30 days from the date of shipment, and is valid only if the product is stored and cultured according to the information included on this product information sheet. Angio-Proteomie lists the media formulation that has been found to be effective for this strain. While other, unspecified media may also produce satisfactory results, a change in media or the absence of an additive from the Angio-Proteomie recommended media may affect recovery, growth and/or function of this strain. If an alternative medium formulation is used, the Angio-Proteomie warranty for viability is no longer valid.

Caution: Handling human tissue derived products is potentially bio-hazardous. Although each cell strain is tested negative for HIV, HBV and HCV DNA, diagnostic tests are not necessarily 100% accurate; therefore, proper precautions must be taken to avoid inadvertent exposure. Always wear gloves and safety glasses when working these materials. Never mouth pipette. We recommend following the universal procedures for handling products of human origin as the minimum precaution against contamination.