

APPLICATIONS, INC.

Published on Cell Applications (https://www.cellapplications.com)

Home > Human Neural Stem Cells: HNSC

Human Neural Stem Cells: HNSC

- Description
- Details
- Products
- Resources
- Citations^{NEW}

5 Important Cell Culture Rules MSDS Cryopreserved Cells Cell Apps Flyer Nervous System Cell Apps Flyer Brain Cells Cell Apps Poster Primary Cells Cell Applications Inc Brochure Instructions HNSC

Description

Human Neural Stem Cells (HNSC) are self-renewing, generated throughout an adult's life via neurogenesis. These multipotent adult stem cells generate the main phenotype of the nervous system, differentiating into neurons, astrocytes, and oligodendrocytes.

HNSC play important roles for development, learning and hippocampal plasticity. They are also used to study age-related declines in proliferation, as well as neurological diseases like stroke, multiple sclerosis, and Parkinson's disease. The cells respond to injury, and can be differentiated to replace lost or injured neurons. They migrate in a directed fashion to brain tumors and help replace dying neurons in injured adult brain tissue.

Cell Applications HNSC are primary cells derived from the cortex region of human brain (single donor). They are cryopreserved at first passage as neurospheres with limited propagation in this format (approximately two to four population doublings). Cell Applications HNSC-2D are capable of at least seven population doublings as a monolayer culture when used in combination with our unique Neural Longevity Matrix (NLM). HNSC-2D are cryopreserved at second passage as a single cell suspension. Our HNSC-2D stain positive for the neural marker ?-tubulin III (three weeks), astrocyte marker GFAP (10 days) and

oligodendrocyte marker O4 (four weeks) when cultured in their appropriate Differentiation Medium.

Image not found or type unknown



[1]

(Click to Enlarge) Human Neural Stem Cells (HNSC) and Derived Lineages. HNSC differentiate to 3 lineages with the aid of specialized media. HNSC stained for Nestin (green) and Sox2 (red) (A). HNSC cultured in Medium 813D-100N differentiate to neurons (? III-Tubulin, green) (B), those in 813D-100A differentiate to astrocytes (GFAP, red) (C), and cells in Medium 813D-100O differentiate to oligodendrocytes (O4, green) (D). All cells are counterstained with nuclear-specific DAPI (blue).

Details

Tissue	Normal healthy human brain cortex
QC	No bacteria, yeast, fungi, mycoplasma, virus
Cryovial	2,000,000 HNSC (1st psg) cryopreserved in Freezing Med (040-50)

Kit	Cryovial frozen HNSC (HS820-f), Growth Medium (813-250), Neural Stem Cell Dissociation Solution (076-20), 10cm non-TC dish x2
Proliferating	N/A
Doublings	N/A
Applications	Laboratory research use only (RUO). Not for human, clinical, diagnostic or veterinary use.

Instructions HNSC

Format: PDF

Download Now [2] MSDS Cryopreserved Cells [3]

Products

Related Products

Extended Family Products

Resources/Documents

5 Important Cell Culture Rules

Format: PDF

Downoad Now [4]

Cell Apps Flyer Nervous System

Format: PDF

Downoad Now [5]

Cell Apps Flyer Brain Cells

Format: PDF

Downoad Now [6]

Cell Apps Poster Primary Cells

Format: PDF

Downoad Now [7]

Cell Applications Inc Brochure

Format: PDF

Downoad Now [8]

Citations

Powered by Bioz [9] See more details on Bioz [10]

Misc. Links

- <u>Site</u>
- Privacy
- Returns
- <u>Shipping</u>
- <u>Terms</u>
- <u>Disclaimer</u>
- Distributors

Contact Us

Cell Applications, Inc

6455 Weathers Place San Diego, CA 92121 Open M-F, 8am-5pm PST

800-645-0848 info@cellapplications.com

Socialize With Us

Newsletter Signup

Subscribe to our newsletter

Source URL: https://www.cellapplications.com/human-neural-stem-cells-hnsc

Links

[1]

https://www.cellapplications.com/sites/default/files/images_product_type/HNSC%20Differentiation%203%20Lineage

[2] https://www.cellapplications.com/sites/default/files/documents/instructions/Instructions HNSC.pdf

[3] https://www.cellapplications.com/sites/default/files/documents/msds/MSDS Cryopreserved Cells.pdf

[4] https://www.cellapplications.com/sites/default/files/documents/misc/5 Important Cell Culture Rules 241111.pdf [5] https://www.cellapplications.com/sites/default/files/documents/misc/Cell Apps Flyer

Nervous System.pdf [6] https://www.cellapplications.com/sites/default/files/documents/misc/Cell Apps Flyer Brain Cells.pdf [7] https://www.cellapplications.com/sites/default/files/documents/misc/Cell Apps Poster Primary Cells (2017).pdf [8] https://www.cellapplications.com/sites/default/files/documents/misc/Cell Applications Inc Brochure 2017.pdf [9] https://www.bioz.com/ [10] https://www.bioz.com/result/hs820-20f/product/Cell Applications Inc/?cn=hs820-20f