

Immortalized Human Neural Stem Cells - L-Myc

Catalog No: tccl2086



Available Sizes

Size: 1Set



Specifications

Host Species:

Human

Source:

Human Stem Cell Collection
Human Adult Stem Cells

Storage Instruction:

Liquid Nitrogen Shipping in Dry Ice

Product Description

Cultures of dissociated NSCs were generated from human fetal brain tissue of 10-14 weeks gestation. NSCs were further cultured under low oxygen conditions and were transduced with retrovirus carrying L-MYC gene.

NOTE:

Generated from dissociated NSCs from human fetal brain tissue Display both self-renewal and multipotent differentiation into neurons, oligodendrocytes, and astrocytes Expression of the L-MYC gene was confirmed by genomic PCR analysis (Li-Gutova-2016) Found to be non-tumorigenic in vivo Further characterization shows: a normal, female karyotype, ability to differentiate into neuronal lineages, and demonstrated the lack of abnormal growth or tumorigenicity in vitro or in vivo.

Pre-clinical studies indicate that neural stem cells (NSCs) can limit or reverse CNS damage through direct cell replacement, promotion of regeneration, or delivery of therapeutic agents. Immortalized NSC lines are in growing demand due to the inherent limitations of adult patient-derived NSCs, including availability, expandability, potential for genetic modifications, and costs.



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