

hDPSC (hDPSC) | 300702

Description

hDPSC (hDPSC) is a pluripotent stem cell derived from human dental pulp. It is characterized by its ability to self-renew and differentiate into various cell types, including neurons, cardiomyocytes, and osteoblasts. hDPSCs are derived from dental pulp stem cells (DPSCs) and are maintained in a pluripotent state in the presence of specific growth factors and signaling molecules.

Organism Human

Tissue Dental pulp

Applications Regenerative medicine, drug discovery, basic research

Growth properties

hDPSCs are cultured in a pluripotent state in the presence of specific growth factors and signaling molecules. They exhibit a high proliferation rate and are capable of self-renewal. The cells are typically cultured in a defined medium containing growth factors such as bFGF and TGF-α.

Citation

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Biosafety level 1

NCBI_TaxID 9606

Culture Medium

MEM, w: 2.0 mM β-mercaptoethanol, w/o: penicillin, streptomycin, w/o: nystatin, w: 1.0 mM β-mercaptoethanol, w: 2.2g/l insulin, transferrin, selenium

Supplements 10% FBS, 2 ng/mL bFGF

Dissociation Reagent Trypsin

Subculturing hDPSCs are cultured in a pluripotent state in the presence of specific growth factors and signaling molecules. They exhibit a high proliferation rate and are capable of self-renewal. The cells are typically cultured in a defined medium containing growth factors such as bFGF and TGF-α.

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Freeze medium CM-1 (Cytion 800100),

Thawing and Culturing Cells

1. T2
2. T2
3. T2
4. T2
5. T2
6. T2
7. T2
8. T2

Incubation Atmosphere 37°C, 5% CO₂,

Flask Coating T2

Freezing Procedure -78°C

Shipping Conditions -78°C

Storage Conditions -150 196

HLA

