

iPSC-hDPSC | 300622

IDENTIFICATION

Description	Cell line derived from human induced pluripotent stem cells (iPSCs) and human dental pulp stem cells (hDPSCs). The cell line is maintained in a feeder-free, serum-free medium. The cell line is characterized by its ability to differentiate into various cell types, including neurons, cardiomyocytes, and hepatocytes. The cell line is suitable for research in regenerative medicine and drug discovery.
Organism	Human
Tissue	Human dental pulp
Disease	None
Applications	The cell line is suitable for research in regenerative medicine and drug discovery. It can be used to study the differentiation of human cells into various cell types, including neurons, cardiomyocytes, and hepatocytes. The cell line is also suitable for studying the effects of various drugs and treatments on human cells.

CHARACTERISTICS

Ethnicity	Chinese
Morphology	IPSCs are typically characterized by their ability to form a dense, multi-layered monolayer of cells. hDPSCs are typically characterized by their ability to form a dense, multi-layered monolayer of cells.
Cell type	Human induced pluripotent stem cells (iPSCs) and human dental pulp stem cells (hDPSCs)
Growth properties	The cell line is characterized by its ability to grow in a feeder-free, serum-free medium. The cell line is also characterized by its ability to differentiate into various cell types, including neurons, cardiomyocytes, and hepatocytes.

RESEARCH AND DEVELOPMENT

Citation	iPSC-hDPSC (Cell Line 300622)
Biosafety level	1
NCBI_TaxID	9606
CellosaurusAccession	CVCL_B7DW
GMO Status	GMO-S1: The cell line is derived from human induced pluripotent stem cells (iPSCs) and human dental pulp stem cells (hDPSCs). The cell line is not a genetically modified organism (GMO) and is therefore suitable for research in regenerative medicine and drug discovery.

CONTACT INFORMATION

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Culture Medium	mTESR
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Dissociation Reagent	XXXXXXXX
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Subculturing	XXXXXXXX XXXXXX XXXXXXXX XXXXXXXX XXXXXXXX XXXXXX XXXX XXXXXXXX XXXXXXXX: 1. XXXXXX XXXXXX XXXXXXXX XXXX XXXXXXXX XXXXXXXX PBS (XXXX XXXXXXXXXX XXXXXXXXXX). 2. XXX XXXXXX XXXXXX XXXXXXXX XXXX XXXXXX XXXXXXXXXX XXXXXXX XXXXXXXX. 3. XXXXXXX XXX XXXX XXXXXXX XXX XXXXXXXX. 4. XX XXXX XXXXXXXXXX XXXX XXXXXX XXXX XXXXXXX XX XXXXXX. 5. XX XXXXXXX XXXXXX XXXXXX XXXXXXX XXXXX 6 XXXXXXX XXXXXXXXXX XXXX XXXXXXXXXX XXXXXXXXXX XX XXXXXX XXXXXX XX XXXXXXXXXX.
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Seeding density	XXXXXXXX XXXXXX XXXXXXXX XXXXXXXX XXXXXXXX XXXXXXXX XXXXXX XXXX XXXXXXXX XXXXXX XXX XXXXXXX XXXX 5,000 XXX 10,000 XXXX/XX ² XX
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Fluid renewal	XXXXXXXX
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Post-Thaw Recovery	XXXXXX
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Freeze medium	XXXXXXXX XXXXXX XXXXXXXXXX XXXXXXXX 80% FBS + 10% XXX XXXXXX + 10% DMSO XXXXXXX XXX XXXXXXXX XX CM-1 (XXXXXXX Cytion XXX 8003).
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Thawing and
Culturing Cells

1. 将细胞从液氮中取出，放入37°C水浴中解冻。解冻后，将细胞悬液离心（300 × g，5 min），弃去上清液。用预热的DMEM/F12培养基重悬细胞，并接种到预铺有细胞贴壁因子的培养皿中。
2. 将细胞悬液接种到预铺有细胞贴壁因子的培养皿中。接种后，将培养皿置于37°C、5% CO₂的培养箱中培养。15-18天后，细胞应达到70%的汇合度。
3. 当细胞达到70%汇合度时，用胰蛋白酶消化细胞。将细胞悬液离心（300 × g，5 min），弃去上清液。用预热的DMEM/F12培养基重悬细胞，并接种到预铺有细胞贴壁因子的培养皿中。
4. 将细胞悬液接种到预铺有细胞贴壁因子的培养皿中。接种后，将培养皿置于37°C、5% CO₂的培养箱中培养。15-18天后，细胞应达到70%的汇合度。
5. 当细胞达到70%汇合度时，用胰蛋白酶消化细胞。将细胞悬液离心（300 × g，5 min），弃去上清液。用预热的DMEM/F12培养基重悬细胞，并接种到预铺有细胞贴壁因子的培养皿中。
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Incubation
Atmosphere

37 °C, 5% CO₂

Flask Coating

见下文

Freezing
Procedure

将细胞悬液离心（300 × g，5 min），弃去上清液。用预冷的DMEM/F12培养基重悬细胞，并加入10% DMSO。将细胞悬液分装到预冷的冻存管中，并置于-80°C冰箱中冻存。

Shipping
Conditions

将冻存管置于干冰中，并置于-80°C冰箱中保存。运输过程中，应保持低温，避免反复冻融。

Storage
Conditions

将冻存管置于-150 °C至-196 °C的液氮中保存。长期保存时，应定期检查液氮水平，确保细胞处于液氮中。

本产品仅供科研使用，不得用于临床诊断或治疗。

Sterility

本产品经过严格的无菌处理，确保细胞在运输和储存过程中不受污染。使用前，请检查包装是否完好，并确认细胞处于无菌状态。