iPSC-hDPSC

300622

GENERAL INFORMATION

Description

[illegible] iPSC-hDPSC [illegible] (hDPSCs) [illegible] 70-80% [illegible] 1 [illegible]

[illegible] (hDPSCs) [illegible] (iPSCs) [illegible] (Yamanaka factors) [illegible] Oct-4, Sox-2 [illegible] Klf-4 [illegible] p53 Anti-sense, EBNA-1 [illegible] iPSC [illegible] iPSC-hDPSC [illegible]

Tissue	[illegible]
Disease	[illegible]

Applications

[illegible]

CLASSIFICATION

Organism	Human
Growth properties	Adherent
GMO status	GMO-S1

GMO status details

GMO-S1: This human iPSC line (iPSC-hDPSC) contains episomal plasmids encoding OCT4, SOX2, KLF4 and c-MYC, supporting reprogramming of dental stromal cells. The constructs are maintained without viral sequences. This classification applies only within Germany and may differ elsewhere.

Biosafety level	1

CHARACTERISTICS

Morphology	IPSC, [illegible]
Cell type	[illegible]

IDENTIFIERS

Citation

iPSC-hDPSC ([illegible] Cytion 300622)

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Registered office Heidelberg
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Banking information
Sparkasse Heidelberg
IBAN: DE35 6725 0020 0009 2076 86
BIC: SOLADES1HDB

NCBI TaxID	9606
Cellosaurus	CVCL_B7DW

HANDLING AND CULTURE

Culture medium

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Incubation atmosphere	37°C, 5%CO2, □□□□□□□□□□□□□
Dissociation reagent	ReLeSR

Subculturing

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Seeding density	□□ □□ 5,000 □□□ 10,000 □□□□□□□□□□□□□□□□□□□□□□□□□□ □□□□□□ □□
Fluid renewal	□□□□□□□
Post-thaw recovery	□□□□□□□□

Thawing and culturing

Confirm that the vial remains deeply frozen upon delivery, as cells are shipped on dry ice to maintain optimal temperatures during transit.
Upon receipt, either store the cryovial immediately at temperatures below -150°C to ensure the preservation of cellular integrity, or proceed to step 3 if immediate culturing is required.
For immediate culturing, swiftly thaw the vial by immersing it in a 37°C water bath with clean water and an antimicrobial agent, agitating gently for 40-60 seconds until a small ice clump remains.
Perform all subsequent steps under sterile conditions in a flow hood, disinfecting the cryovial with 70% ethanol before opening.
Carefully open the disinfected vial and transfer the cell suspension into a 15 ml centrifuge tube containing 8 ml of room-temperature culture medium, mixing gently.
Centrifuge the mixture at 300 x g for 3 minutes to separate the cells and carefully discard the supernatant containing residual freezing medium.
Gently resuspend the cell pellet in 10 ml of fresh culture medium. For adherent cells, divide the suspension between two T25 culture flasks; for suspension cultures, transfer all the medium into one T25 flask to promote effective cell interaction and growth.
Adhere to established subculture protocols for continued growth and maintenance of the cell line, ensuring reliable experimental outcomes.

QUALITY CONTROL AND CRYOPRESERVATION

Sterility

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Freeze medium	□□□ □□□□□□□ FBS 80% + □□□□□□□□□□□□□□□□□ 10% + DMSO 10% □□□□□□□□□□□□□□□□□□□□□□□□□□ □□□□ CM-1 (□□□□□□□□□□□□□□□□□□ Cytion 800100) □□□□□□□□□□□□□□□□□□□□□□□□□ □□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□ □□□□□□□□□□□□□□□□□□□□□□□□□□□□□ □□ □□□

Storage conditions

[illegible] [illegible] −150 [illegible] −196 °C [illegible] −80 °C [illegible]

Shipping conditions

[illegible] [illegible] −78 °C [illegible] [illegible] [illegible]

DONOR

Ethnicity	[illegible]

LEGAL AND SAFETY

Safety precautions

[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

Warranty

[illegible]Cytion [illegible]
[illegible]
60 [illegible]
[illegible]
[illegible] [illegible]/[illegible]
[illegible] [illegible]
<a href=""/Who-we-are/Warranty/"" hreflang=""x-default"">[illegible].

Material Transfer Agreement required	Yes