

U2OS-ZFN-SNAP-Nup107 | 300294

General information

Description U2 OS-ZFN-SNAP-Nup107 is a cell line derived from U-2 OS, a human osteosarcoma cell line. It is characterized by the presence of a ZFN (Zinc Finger Nuclease) and SNAP (Single-Strand Annealing) system, which allows for targeted genome editing. The cell line is maintained in DMEM/F12 medium supplemented with 10% fetal bovine serum (FBS) and 10% human platelet-derived growth factor (hPDGF). The cell line is available as a suspension culture.

Organism Human

Tissue Bone

Disease Osteosarcoma

Characteristics

Age 15 days

Gender Male

Ethnicity Caucasian

Growth properties Adherent

Identification and safety

Citation U-2 OS-ZFN-SNAP-Nup107 (Cytion 300294)

Biosafety level 1

NCBI_TaxID 9606

CellosaurusAccession CVCL_B7FM

Depositor Cytion (EMBL)

GMO Status GMO-S1: U2OS-ZFN-SNAP-Nup107 (no. 294) is a genetically modified organism (GMO) derived from the U2OS cell line. It contains a ZFN-SNAP system for targeted genome editing.

Additional information

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Protein expression SNAP-Nup107 (SNAP-tagged Nup107, SNAP-tag)

Media

Culture Medium McCoy's 5a, w: 3.0 g/L $\text{CaCl}_2 \cdot 2\text{H}_2\text{O}$, w: 0.1 g/L $\text{CaCl}_2 \cdot 2\text{H}_2\text{O}$, w: 2.0 mM $\text{CaCl}_2 \cdot 2\text{H}_2\text{O}$, w: 2.2 g/L NaHCO_3 (Cytion 820200a)

Supplements 10% FBS, 3.0 $\mu\text{g}/\text{ml}$ $\text{CaCl}_2 \cdot 2\text{H}_2\text{O}$, 2.0 $\mu\text{g}/\text{ml}$ $\text{CaCl}_2 \cdot 2\text{H}_2\text{O}$, 2.2 $\mu\text{g}/\text{ml}$ NaHCO_3 , 1% NEAA

Dissociation Reagent Trypsin

Subculturing Seed cells into fresh medium in T25 flasks, 3-5 $\times 10^5$ cells per flask in PBS, 3-5 $\times 10^5$ cells per flask in medium, 3-5 $\times 10^5$ cells per flask in medium

Fluid renewal 2-3 times per week

Freeze medium 10% FBS + 10% DMSO

- Thawing and Culturing Cells**
1. Thaw cells rapidly in a 37°C water bath, transfer to a pre-warmed medium.
 2. Centrifuge at 300 x g for 3 minutes, resuspend in fresh medium.
 3. Seed cells into fresh medium in T25 flasks, 3-5 $\times 10^5$ cells per flask.
 4. Seed cells into fresh medium in T25 flasks, 3-5 $\times 10^5$ cells per flask.
 5. Seed cells into fresh medium in T25 flasks, 3-5 $\times 10^5$ cells per flask.
 6. Seed cells into fresh medium in T25 flasks, 3-5 $\times 10^5$ cells per flask.
 7. Seed cells into fresh medium in T25 flasks, 3-5 $\times 10^5$ cells per flask.
 8. Seed cells into fresh medium in T25 flasks, 3-5 $\times 10^5$ cells per flask.

Incubation Atmosphere 37°C, 5% CO_2

Product sheet

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Flask Coating
[REDACTED]

Freezing Procedure
[REDACTED] -78°C

Shipping Conditions
[REDACTED] -78°C

Storage Conditions
[REDACTED] -150 °C 196 [REDACTED]

[REDACTED] / [REDACTED] / HLA

Sterility
[REDACTED] PCR [REDACTED]
[REDACTED]