

U2OS-ZFN-SNAP-Nup107 | 300294

U2OS-ZFN-SNAP-Nup107

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-SNAP-Nup107 construct. The cell line is maintained in DMEM supplemented with 10% fetal bovine serum (FBS) and 1% penicillin-streptomycin. The cell line is used for studying the function of Nup107 in the nuclear pore complex and its role in DNA replication and repair.

Organism Human

Tissue Bone

Disease Osteosarcoma

Characteristics

Age 15 days

Gender Male

Ethnicity Caucasian

Growth properties Adherent

References

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) SNAP-Nup107

Additional information

Product sheet

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Protein expression SNAP-Nup107 (U2OS ZFN SNAP-tagged Nup107, SNAP-tag)

U2OS

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 U2OS cells are cultured in McCoy's 5a medium supplemented with 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 , and 1% NEAA. Cells are grown in T25 flasks at 37°C in 5% CO_2 . For subculturing, cells are trypsinized and resuspended in McCoy's 5a medium supplemented with 10% FBS.

Fluid renewal 2-3 times per week

Freeze medium McCoy's 5a medium supplemented with 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 , and 1% NEAA. Cells are frozen in 10% DMSO.

- Thawing and Culturing Cells**
1. Thaw cells in a 37°C water bath.
 2. Add 10% FBS to the McCoy's 5a medium.
 3. Seed cells into T25 flasks.
 4. Incubate cells at 37°C in 5% CO_2 .
 5. Monitor cell growth and confluency.
 6. Harvest cells when they reach 70-80% confluency.
 7. Perform subculturing as described above.
 8. Maintain cells in McCoy's 5a medium supplemented with 10% FBS.

Incubation Atmosphere 37°C, 5% CO_2

