

U2OS-CRISPR-NUP96-Halo | 300448

Key words

Description U-2 OS-CRISPR-NUP96-Halo is a cell line derived from U-2 OS cells. It is characterized by the presence of a CRISPR-Cas9 system targeting the NUP96 gene, and the expression of a HaloTag protein. The cells are maintained in DMEM supplemented with 10% FBS and 1% penicillin/streptomycin. HaloTag is a protein that can be covalently attached to a variety of fluorophores, allowing for the visualization and tracking of the protein in cells.

Organism Human

Tissue Cell culture

Disease Cancer

Characteristics

Age 15 days

Gender Male

Ethnicity Caucasian

Morphology Adherent

Growth properties High growth rate

References

Citation U-2 OS-CRISPR-NUP96-Halo (Cell Culture Collection Cytion 300448)

Biosafety level 1

NCBI_TaxID 9606

CellosaurusAccession CVCL_B7FI

Depositor Cell Culture Collection (EMBL)

GMO Status GMO-S1: U-2 OS-CRISPR-NUP96-Halo (U2OS-CRISPR-NUP96-Halo, 252) is a genetically modified organism (GMO) derived from U-2 OS cells. It contains a CRISPR-Cas9 system targeting the NUP96 gene, and the expression of a HaloTag protein.

U2OS-CRISPR-NUP96-Halo | 300448

Thawing and Culturing Cells

1. Thaw the cells in a water bath at 37°C. Transfer the cells to a pre-warmed medium.
2. Seed the cells into a 150 cm² flask containing 150 ml of pre-warmed medium.
3. Incubate the cells at 37°C in 5% CO₂.
4. Once cells reach 70% confluency, passage them into a new flask.
5. Seed the cells into a 15 cm² flask containing 15 ml of pre-warmed medium.
6. Incubate the cells at 37°C in 5% CO₂.
7. Once cells reach 100% confluency, passage them into a 10 cm² flask.
8. Incubate the cells at 37°C in 5% CO₂.

Incubation Atmosphere 37°C, 5% CO₂, humidified

Flask Coating None

Freezing Procedure Harvest cells into a 300 x g tube, add 3 ml of freezing medium, and freeze at -80°C.

Shipping Conditions Ship at -80°C.

Storage Conditions Store at -150 °C for 196 days.

CRISPR / gRNA / HLA

Sterility The cells are free of mycoplasma and PCR confirmed for the presence of the CRISPR system.

U2OS-CRISPR-NUP96-Halo | 300448

HLA

A*: '02:01:01, '32:01:01

B*: '44:02:01, '44:27:01

C*: 05:01:01, 07:04:01

DRB1*: '09:01:02G, '14:54:01

DQA1*: '01:04:01, '03:02:01

DQB1*: 03:03:02, 05:03:01

DPB1*: '02:01:02, '04:01:01

E: 01:01:01