

HCT116-GFP | 305649

Key Information

Description

HCT116-GFP is a cell line derived from HCT116 cells, which are a human colorectal adenocarcinoma cell line. The GFP gene is stably integrated into the genome of the cells, allowing for visualization of the cells under a fluorescence microscope.

The cells are maintained in DMEM/F12 medium supplemented with 10% fetal bovine serum (FBS) and 1% penicillin-streptomycin. For long-term storage, the cells can be cryopreserved in DMEM/F12 medium supplemented with 10% FBS and 1% penicillin-streptomycin.

HCT116-GFP cells are suitable for various applications, including cell cycle analysis, cell death studies, and gene expression analysis.

Organism Human

Tissue Colon

Disease Colorectal adenocarcinoma

Synonyms HCT-116, HCT.116, HCT_116, HCT116, HCT116wt, HCT-116/P, HCT-116/parental, CoCL2

Characteristics

Age 48 years

Gender Male

Ethnicity Caucasian

Growth properties Adherent

Additional Information

Citation HCT116-GFP (Cytion 305649)

Biosafety level 1

NCBI_TaxID 9606

CellSaurusAccession CVCL_0291

GMO Status GMO-S1: HCT116 cells stably expressing GFP

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Cell Line - **Characteristics**

Mutational profile p.Lys437Argfs*5, p.Ile2675Aspfs*6, p.Arg24Serfs*20, p.Met1470Cysfs*22, p.Asn1700Thrfs*9, p.Gly13Asp, p.His

Cell Line

Culture Medium McCoy5a, w: 3.0 g/L, w: 2.0 mM, w: 2.2 g/L NaHCO3 (Cytion 820200a)

Supplements 10% FBS

Dissociation Reagent

Doubling time 27, 17.1, 22, 25.02, 36, 18.14 ± 0.051, 25-48, 17.4, 21

Seeding density 2 x 10⁴ cells/cm²

Freeze medium + 10% DMSO

Thawing and Culturing Cells

1. Thaw cells rapidly in a 37°C water bath, transfer to a pre-warmed tube, and add to a pre-warmed medium.
2. Centrifuge at 300 x g for 5 minutes, remove supernatant, and resuspend in 1 mL of fresh medium.
3. Seed cells into a 25 cm² flask with 10 mL of fresh medium.
4. Incubate cells in a humidified 5% CO₂ incubator at 37°C until they reach 70% confluency.
5. Harvest cells by trypsinization and seed into a 96-well plate at 15,000 cells per well.
6. Incubate cells in a humidified 5% CO₂ incubator at 37°C until they reach 80% confluency.
7. Harvest cells by trypsinization and seed into a 96-well plate at 15,000 cells per well.

Incubation Atmosphere 37°C, 5% CO₂

