

HCT116-GFP Cells | 305649**Información general**

Organism	Human
Tissue	Colon
Disease	Colon carcinoma
Synonyms	HCT-116, HCT.116, HCT_116, HCT116, HCT116wt, HCT-116/P, HCT-116/parental, CoCL2

Características

Age	48 years
Gender	Male
Ethnicity	Caucasian
Growth properties	Adherent

Datos reglamentarios

Citation	HCT116-GFP (Cytion catalog number 305649)
Biosafety level	1
NCBI_TaxID	9606
CellosaurusAccession	CVCL_0291
GMO Status	GMO-S1: This HCT116 colorectal carcinoma line contains a GFP construct enabling fluorescent monitoring of tumor-cell behavior. This classification applies only within Germany and may differ elsewhere.

Datos biomoleculares

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Mutational profile Mutation: p.Lys437Argfs*5, Homozygous; Mutation: p.Ile2675Aspfs*6, Heterozygous; Mutation: p.Arg24Serfs*20, Heterozygous; Mutation: p.Glu33Argfs*20, Heterozygous; Mutation: p.Asp74fs*21, Heterozygous; Mutation: p.Ser45del, Heterozygous; Mutation: p.Met1470Cysfs*22, Heterozygous; Mutation: p.Asn1700Thrfs*9, Heterozygous; Mutation: p.Gly13Asp, Heterozygous; Mutation: p.His1047Arg, Heterozygous; Mutation: p.Leu450Ter, Heterozygous; Mutation: p.Lys128Serfs*35, Homozygous

Manejo de

Culture Medium McCoy's 5a, w: 3.0 g/L Glucose, w: stable Glutamine, w: 2.0 mM Sodium pyruvate, w: 2.2 g/L NaHCO₃ (Cytion article number 820200a)

Supplements Supplement the medium with 10% FBS

Dissociation Reagent Accutase

Doubling time 27 hours ; 17.1 hours ; 22 hours ; 25.02 hours ; 36 hours ; 18.14 +- 0.051 hours ; ~25-48 hours ; 17.4 hours ; ~21 hours

Seeding density 2 to 4 x 10⁴ cells/cm²

Freeze medium As a cryopreservation medium, we use complete growth medium + 10% DMSO for adequate post-thaw viability.

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Thawing and Culturing Cells

1. Confirm that the vial remains deeply frozen upon delivery, as cells are shipped on dry ice to maintain optimal temperatures during transit.
2. 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.
3. 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.
4. Perform all subsequent steps under sterile conditions in a flow hood, disinfecting the cryovial with 70% ethanol before opening.
5. 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.
6. Centrifuge the mixture at $200 \times g$ for 5 minutes, carefully discard the supernatant containing freezing medium.
7. Follow the procedure described under Post-Thaw Recovery

Incubation Atmosphere

37°C , 5% CO_2 , humidified atmosphere.

Flask Coating

None

Shipping Conditions

Cryopreserved cell lines are shipped on dry ice in validated, insulated packaging with sufficient refrigerant to maintain approximately -78°C throughout transit. On receipt, inspect the container immediately and transfer vials without delay to appropriate storage.

Storage Conditions

For long-term preservation, place vials in vapor-phase liquid nitrogen at about -150 to -196°C . Storage at -80°C is acceptable only as a short interim step before transfer to liquid nitrogen.

Control de calidad / Perfil genético / HLA