

HH-7.5.1 | 305491

Product information

Description	Huh-7.5.1 is a human liver cancer cell line derived from Huh-7 cells. It is a variant of the Huh-7 cell line, which is a human liver cancer cell line. Huh-7.5.1 cells are characterized by their ability to produce and secrete HCV RNA. They are used for the study of HCV infection and replication. Huh-7.5.1 cells are grown in DMEM supplemented with 10% FBS. They are highly sensitive to HCV infection and produce high titers of HCV RNA. Huh-7.5.1 cells are also used for the study of HCV-induced liver cancer. They are a valuable tool for the study of HCV infection and its associated diseases.
Organism	Human
Tissue	Liver
Disease	Hepatitis C virus (HCV) infection
Synonyms	Huh 7.5.1, Huh7.5.1

Cell characteristics

Age	57 years
Gender	Male
Ethnicity	Chinese
Growth properties	Adherent

Cell line identification

Citation	Huh-7.5.1 (Huh-7.5.1) Cytion: 305491
Biosafety level	1
NCBI_TaxID	9606
CellSaurusAccession	CVCL_E049

Cell line authentication

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Virus susceptibility

HH-7.5.1 is highly susceptible to HCV (HCV) and is not susceptible to other viruses.

Mutational profile

HH-7.5.1 has a high mutation rate and is highly resistant to antiviral drugs. Key mutations include KDR p.Gln472His (c.1416A>T), POLD3 p.Lys109Arg (c.326A>G) (p.Lys70Arg c.209A>G) (c.164C>T), TERT c.1-124C>T (c.228C>T) (C228T), TP53 p.Tyr220Cys (c.659A>G) and others.

Culture Medium

DMEM 4.5 g/l, 4 mM Glucose, 3.7 g/l NaHCO₃, 1.0 mM Sodium Pyruvate (pH 8.2)

Supplements

10% FBS

Dissociation Reagent

Trypsin

Seeding density

2-4*10⁴/cm²

Freeze medium

DMEM + 10% FBS + 10% DMSO

Thawing and Culturing Cells

1. Thaw cells quickly in a water bath at 37°C.
2. Add cells to a pre-warmed medium containing 10% FBS.
3. Seed cells into a 24-well plate at a density of 2-4*10⁴/cm².
4. Incubate cells for 24 hours at 37°C.
5. Replace the medium with fresh medium containing 10% FBS.
6. Seed cells into a 96-well plate at a density of 2-4*10⁴/cm².
7. Incubate cells for 24 hours at 37°C.
8. Replace the medium with fresh medium containing 10% FBS.

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Incubation
Atmosphere

37 °C, 5% CO₂, humidified

Shipping
Conditions

Shipped in dry ice, stored at -78 °C

Storage
Conditions

Store at -150 °C to -196 °C

HH-7.5.1, HH-7.5.2, HH-7.5.3, HH-7.5.4

Sterility

HH-7.5.1, HH-7.5.2, HH-7.5.3, HH-7.5.4 are sterile (PCR) and free of mycoplasmas.
HH-7.5.1, HH-7.5.2, HH-7.5.3, HH-7.5.4 are free of mycoplasmas.