

Product sheet

HS1-CLS | 300212

General information

<b>Description</b>	Cell line derived from a patient with a primary tumor of the colon, metastasizing to the liver and lung.
<b>Organism</b>	Human
<b>Tissue</b>	Colon
<b>Disease</b>	Colorectal adenocarcinoma
<b>Synonyms</b>	HS-1, RM-HS1

Cell characteristics

<b>Age</b>	37 years
<b>Gender</b>	Male
<b>Ethnicity</b>	White
<b>Morphology</b>	Epithelial cells, adherent
<b>Growth properties</b>	Highly proliferative

Identification and safety

<b>Citation</b>	HS1-CLS (Cell line derived from a patient with a primary tumor of the colon, metastasizing to the liver and lung)   Cytion 300212
<b>Biosafety level</b>	1
<b>NCBI_TaxID</b>	9606
<b>CellosaurusAccession</b>	CVCL_5978

Protein expression

<b>Protein expression</b>	P53
---------------------------	-----

Product sheet

HS1-CLS | 300212

<b>Tumorigenic</b>	Yes, tumorigenic in mice
<b>Mutational profile</b>	BRAF V600Ewt
<b>Characteristics</b>	
<b>Culture Medium</b>	DMEM, w: 4.5 g/L D-glucose, w: 4 mM L-glutamine, w: 3.7 g/L NaHCO <sub>3</sub> , w: 1.0 mM sodium pyruvate (Cytion 820300a)
<b>Supplements</b>	10% FBS
<b>Dissociation Reagent</b>	Trypsin
<b>Subculturing</b>	Cells are cultured in DMEM supplemented with 10% FBS. For subculturing, cells are trypsinized and resuspended in DMEM supplemented with 10% FBS. Cells are seeded into T25 flasks at a density of 1 x 10 <sup>4</sup> cells per flask. Cells are cultured until they reach 80-90% confluency, then passaged into new flasks.
<b>Seeding density</b>	1 x 10 <sup>4</sup> cells/flask
<b>Fluid renewal</b>	2-3 times per week
<b>Post-Thaw Recovery</b>	After thawing, cells are seeded into a 24-well plate and cultured for 24 hours to allow for recovery.
<b>Freeze medium</b>	DMEM supplemented with 10% FBS, 10% DMSO

**HS1-CLS | 300212**

**Thawing and Culturing Cells**

1. Thaw the cells quickly in a water bath at 37°C. Do not allow the cells to warm up to room temperature. Transfer the cells to a pre-warmed medium.
2. Centrifuge the cells at 300 x g for 3 minutes. Resuspend the cells in 15 ml of pre-warmed medium.
3. Seed the cells into a T25 flask containing 10 ml of pre-warmed medium. The cell density should be approximately 1.5 x 10<sup>6</sup> cells per flask.
4. Incubate the cells at 37°C with 5% CO<sub>2</sub> in a humidified atmosphere. The cells should reach 70% confluency within 24 hours.
5. Harvest the cells by trypsinization. Seed the cells into a T25 flask containing 10 ml of pre-warmed medium. The cell density should be approximately 1.5 x 10<sup>6</sup> cells per flask.
6. Incubate the cells at 37°C with 5% CO<sub>2</sub> in a humidified atmosphere. The cells should reach 70% confluency within 24 hours.
7. Harvest the cells by trypsinization. Seed the cells into a T25 flask containing 10 ml of pre-warmed medium. The cell density should be approximately 1.5 x 10<sup>6</sup> cells per flask.
8. Incubate the cells at 37°C with 5% CO<sub>2</sub> in a humidified atmosphere. The cells should reach 70% confluency within 24 hours.

**Incubation Atmosphere**

37°C, 5% CO<sub>2</sub>, humidified

**Flask Coating**

Yes

**Freezing Procedure**

Resuspend the cells in 1 ml of freezing medium. Seed the cells into a cryovial. Freeze the cells at -80°C.

**Shipping Conditions**

Store the cells at -80°C. Ship the cells on dry ice.

**Storage Conditions**

Store the cells at -150°C for up to 196 weeks.

**HLA**

**Sterility**

The cells are free of mycoplasmas and PCR detectable. The cells are free of endotoxins. The cells are free of viruses.