

Product sheet

HEP-56.1D-56.1D | 400204

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Description Hep-56.1D is a cell line derived from Hep-56.1D cells. It is a continuous cell line of rat hepatoma cells. The cells are maintained in culture in DMEM supplemented with 10% fetal bovine serum (FBS) and 1% penicillin-streptomycin. The cells are characterized by their ability to produce and secrete large amounts of albumin and urea. The cells are also capable of forming colonies in soft agar. The cells are used for the study of liver cancer and for the production of recombinant proteins.

Organism Rat

Tissue Liver

Disease Hepatocellular carcinoma

Synonyms HEP-56.1D, 56.1D, 56.1D, 56.1D

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Breed/Subspecies C57BL/6J

Age 1-2 weeks

Gender Male

Morphology Adherent, epithelial

Growth properties High growth rate

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Citation Hep-56.1D (ATCC CRL-1573) | 400204

Biosafety level 1

NCBI_TaxID 10090

CellosaurusAccession CVCL_5769

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Protein expression 8x His-tagged 18x His-tagged

Tumorigenic Tested in C57BL/6J. No tumorigenic activity observed in 5-6 weeks.

Ploidy status Diploid

Mutational profile P53mut C:G → G:C 132 mutations p53 5' deletion

Characteristics

Culture Medium DMEM 4.5g/l, 4% FBS, 3.7g/l NaHCO₃, 1.0g/l Penicillin (820 IU/ml)

Supplements 10% FBS

Dissociation Reagent Trypsin

Doubling time 25-30 hours

Subculturing 1:2-1:4 in DMEM with 4% FBS, PBS wash

Seeding density 1-2 × 10⁵ cells/cm²

Fluid renewal 3-4 days

Post-Thaw Recovery >90% recovery, 24-48 hours

Freeze medium DMEM with 10% FBS + 10% DMSO

