

Product sheet

H-MESO-1 | 300186

General Information

Description H-MESO-1 is a cell line derived from a patient with a high-grade glioma. It is characterized by its ability to grow in neurosphere-forming conditions and its expression of neural stem cell markers. H-MESO-1 is a highly tumorigenic cell line that can form tumors in immunodeficient mice. H-MESO-1 is a highly tumorigenic cell line that can form tumors in immunodeficient mice. H-MESO-1 is a highly tumorigenic cell line that can form tumors in immunodeficient mice.

Organism Human

Tissue Glioma

Disease Glioblastoma

Synonyms H-Meso-1, HMESO-1, HMeso-1, HMeso1, HMESO1, H-Meso, HMESO, Hmeso, Hmeso

Characteristics

Age 35 years

Gender Male

Ethnicity Caucasian

Morphology Spherical cell clusters

Growth properties Neurosphere-forming

References

Citation H-MESO-1 (Cytion 300186)

Biosafety level 1

NCBI_TaxID 9606

CellosaurusAccession CVCL_5759

Product sheet

H-MESO-1 | 300186

Cell Line H-MESO-1

Tumorigenic Yes, subcutaneous xenograft

Species Human

Culture Medium RPMI 1640, w: 2.0 mM β -mercaptoethanol, w: 2.0 g/L NaHCO₃ (Cytion 820700a)

Supplements 10% FBS

Dissociation Reagent Trypsin

Subculturing Cells are cultured in RPMI 1640 medium supplemented with 10% FBS. For passaging, cells are trypsinized and resuspended in PBS. Cells are seeded into T25 flasks at a density of 1-3 x 10⁴ cells per flask in 5 ml of RPMI 1640 medium supplemented with 10% FBS.

Seeding density 1 x 10⁴ cells/cm²

Fluid renewal 5-7 days

Post-Thaw Recovery Cells are thawed in a 37°C water bath and washed with PBS. Cells are resuspended in RPMI 1640 medium supplemented with 10% FBS and seeded into T25 flasks. Cells are allowed to recover for 24 hours before use.

Freeze medium RPMI 1640 medium supplemented with 10% FBS + 10% DMSO

HEMESO-1 | 300186

Thawing and Culturing Cells

1. Thaw the vial rapidly in a 37°C water bath. Do not vortex. Transfer the cells to a 15 mL centrifuge tube containing 10 mL of pre-warmed medium.
2. Centrifuge at 300 x g for 3 minutes. Remove the supernatant and resuspend the cells in 10 mL of pre-warmed medium.
3. Seed the cells into a T25 flask containing 10 mL of pre-warmed medium.
4. Incubate the cells at 37°C in 5% CO₂ until they reach 70% confluency.
5. Harvest the cells by trypsinization and centrifugation at 300 x g for 3 minutes.
6. Resuspend the cells in 10 mL of pre-warmed medium.
7. Seed the cells into a T25 flask containing 10 mL of pre-warmed medium.
8. Incubate the cells at 37°C in 5% CO₂ until they reach 70% confluency.

Incubation Atmosphere 37°C, 5% CO₂, humidified

Flask Coating Cell culture flasks are pre-coated with poly-L-lysine.

Freezing Procedure Harvest cells by trypsinization and centrifugation at 300 x g for 3 minutes. Resuspend in freezing medium and freeze at -80°C.

Shipping Conditions Store at -80°C. Ship on dry ice.

Storage Conditions Store at -150°C for up to 196 months.

Genotype / Phenotype / HLA

Sterility The cells are tested for mycoplasma contamination using PCR. The cells are also tested for endotoxin contamination.

XXXXH-MESO-1 | 300186

XXXXX HLA

A*: 02:01:01
B*: 13:02:01, 44:02:01
C*: '06:02:01, '07:04:01
DRB1*: 07:01:01, 13:01:01
DQA1*: '01:03:01, '02:01:01
DQB1*: 02:02:01, 06:03:01
DPB1*: 03:01, 20:01:01
E: 01:01, 01:03