

Product sheet

**H-MESO-1 | 300186**

**General Information**

**Description** H-MESO-1 is a human mesenchymal stromal cell line derived from a 35-year-old male donor. The cells are adherent, fibroblastic, and capable of differentiating into various cell types, including adipogenic, osteogenic, and chondrogenic lineages. They express markers characteristic of mesenchymal stem cells, such as CD105, CD133, and CD200, and do not express markers of hematopoietic or epithelial origin. H-MESO-1 cells are maintained in DMEM supplemented with 10% fetal bovine serum (FBS) and are used for various research applications, including stem cell biology, tissue engineering, and drug discovery.

**Organism** Human

**Tissue** Bone Marrow

**Disease** None

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

**Characteristics**

**Age** 35 years

**Gender** Male

**Ethnicity** Caucasian

**Morphology** Fibroblastic

**Growth properties** Adherent

**References**

**Citation** H-MESO-1 (Cytion 300186)

**Biosafety level** 1

**NCBI\_TaxID** 9606

**CellosaurusAccession** CVCL\_5759

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**Cell Line** H-MESO-1

**Tumorigenic** Yes, subcutaneous xenograft

**Species** Human

**Culture Medium** RPMI 1640, w: 2.0 mM Glutamine, 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. Cells are passaged by trypsinization into T25 flasks, 3-5 x 10<sup>6</sup> cells per flask. Cells are harvested by trypsinization and centrifugation.

**Seeding density** 1 x 10<sup>4</sup> cells/cm<sup>2</sup>

**Fluid renewal** 5-7 days

**Post-Thaw Recovery** Cells are thawed in a 37°C water bath and immediately washed with PBS. Cells are then resuspended in fresh medium 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

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**Thawing and Culturing Cells**

1. Thaw the cryovials rapidly in a water bath at 37°C. Do not allow the cells to reach room temperature. Transfer the cells to a 15 mL centrifuge tube containing 10 mL of pre-warmed complete medium. Centrifuge at 300 x g for 3 minutes. Resuspend the cells in 10 mL of complete medium. Seed the cells into a T25 flask containing 10 mL of complete medium. Incubate at 37°C, 5% CO<sub>2</sub>.
2. Once the cells have reached confluence, remove the medium and replace it with fresh complete medium. Seed the cells into a T25 flask containing 10 mL of complete medium. Incubate at 37°C, 5% CO<sub>2</sub>.
3. Once the cells have reached confluence, remove the medium and replace it with fresh complete medium. Seed the cells into a T25 flask containing 10 mL of complete medium. Incubate at 37°C, 5% CO<sub>2</sub>.
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5. Once the cells have reached confluence, remove the medium and replace it with fresh complete medium. Seed the cells into a T25 flask containing 10 mL of complete medium. Incubate at 37°C, 5% CO<sub>2</sub>.
6. Once the cells have reached confluence, remove the medium and replace it with fresh complete medium. Seed the cells into a T25 flask containing 10 mL of complete medium. Incubate at 37°C, 5% CO<sub>2</sub>.
7. Once the cells have reached confluence, remove the medium and replace it with fresh complete medium. Seed the cells into a T25 flask containing 10 mL of complete medium. Incubate at 37°C, 5% CO<sub>2</sub>.
8. Once the cells have reached confluence, remove the medium and replace it with fresh complete medium. Seed the cells into a T25 flask containing 10 mL of complete medium. Incubate at 37°C, 5% CO<sub>2</sub>.

**Incubation Atmosphere** 37°C, 5% CO<sub>2</sub>, humidified

**Flask Coating** None

**Freezing Procedure** Harvest cells into a 15 mL centrifuge tube. Centrifuge at 300 x g for 3 minutes. Resuspend the cells in 1 mL of freezing medium. Aliquot into cryovials. 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.

**HEMESO-1 / HLA**

**Sterility**

HEMESO-1 is sterile and ready to use. No further sterilization is required.

HEMESO-1 is free of mycoplasmas, endotoxins, and other contaminants.

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**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