

Product sheet

BT-483 | 305247

BT-483

Description
BT-483 is a cell line derived from a patient with acute myeloid leukemia (AML). It is characterized by a t(8;21) translocation, resulting in the fusion of the FMS1 and FMS2 genes. The cell line is highly sensitive to chemotherapy and is used as a model for studying the pathogenesis and treatment of AML.

Organism Human

Tissue Bone Marrow

Disease Acute Myeloid Leukemia (AML)

Synonyms BT483

BT-483

Age 23 years

Gender Male

Ethnicity Caucasian

Morphology Myeloid

Cell type Myeloid

Growth properties Adherent

BT-483

Citation BT-483 (ATCC CCL-2319) | Cytion 305247

Biosafety level 1

NCBI_TaxID 9606

CellosaurusAccession CVCL_2319

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BT-483 -

Tumorigenic , /IMR; " "; ,

Mutational profile PIK3CA, p.Glu542Lys (c.1624G>A); TP53 p.Met246Ile (c.738G>A)

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Culture Medium DMEM:Ham's F12 (1:1), w: 3.1 g/L , w: 2.5 mM L-, w: 15 mM HEPES, w: 0.5 mM , w: 1.2 g/L NaHCO3 820400a)

Supplements 10% FBS

Dissociation Reagent TrypLE Express

Subculturing -PBS T25, -3-5 " PBS, 3 . ,

Seeding density 1 x 10⁴ /

Fluid renewal 2 x 3

Freeze medium (FBS) + 10% DMSO

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Thawing and Culturing Cells

1. Thaw the cells rapidly in a water bath at 37°C. Do not allow the cells to reach room temperature. Transfer the cells to a pre-warmed medium.
2. Seed the cells into a pre-warmed medium. Incubate at 37°C in a humidified atmosphere with 5% CO₂.
3. Monitor the cells for attachment and growth. Change the medium after 24 hours.
4. Once the cells are established, passage them into fresh medium. Seed at a density of 10⁴ to 10⁵ cells per well.
5. Use the cells for experiments when they reach 70-80% confluency.
6. Harvest the cells by trypsinization. Wash with PBS and resuspend in a suitable medium.
7. Count the cells using a hemocytometer or a cell counter.
8. Store the cells in liquid nitrogen for long-term storage.

Incubation Atmosphere 37°C, 5% CO₂, humidified

Shipping Conditions Store at -80°C

Storage Conditions Store at -150°C for 196 days

HLA

Sterility PCR