

CCRF-CEM | 300147

General information

Description	CCRF-CEM is a human myeloid leukemia cell line derived from a patient with acute myeloid leukemia (AML). It is a continuous cell line that grows in suspension and is characterized by its high proliferation rate and its ability to differentiate into myeloid cells. CCRF-CEM is a cell line that is widely used in research on leukemia and hematopoiesis. It is a cell line that is derived from a patient with acute myeloid leukemia (AML) and is characterized by its high proliferation rate and its ability to differentiate into myeloid cells. CCRF-CEM is a cell line that is widely used in research on leukemia and hematopoiesis. It is a cell line that is derived from a patient with acute myeloid leukemia (AML) and is characterized by its high proliferation rate and its ability to differentiate into myeloid cells. CCRF-CEM is a cell line that is widely used in research on leukemia and hematopoiesis.
Organism	Human
Tissue	Leukemia
Disease	Acute myeloid leukemia
Synonyms	CCRF/CEM, CCRFCEM, CCRF.CEM, CCRF CEM, CCRF, CEM, CEM-CCRF, CEM-CCRF (CAMR), CCRF/CEM/0, CEM/0, CEM-0, CCRF-CEM/S, GM03671, GM03671C

Characteristics

Age	4 months
Gender	Male
Ethnicity	Unknown
Morphology	Large, round, granular cells with high nuclear to cytoplasmic ratio, characteristic of myeloid cells.
Cell type	Myeloid
Growth properties	High proliferation rate, continuous growth.

References and safety

Citation	CCRF-CEM (ATCC CCL-221) Cytion 300147
Biosafety level	1

XXX CCRF-CEM | 300147

NCBI_TaxID 9606

CellosaurusAccession CVCL_0207

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Protein expression P53

Antigen expression CD3 B (37%), CD4 (50%), CD5 (95%), CD7 (77%)

Isoenzymes G6PD, B

Tumorigenic ☒☒ ☒☒☒☒☒☒ ☒☒☒☒☒☒☒☒

Viruses EBV ☐ ☐ ☐ ☐

Reverse transcriptase 

Ploidy status

MSI-status (MSI)

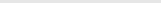
XXXXXXXXXX

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

Supplements 10% FBS

Doubling time 24 ☐☐☐☐

Subculturing

Seeding density  5 $\times 10^5$

Fluid renewal ☒3 ☒☒☒☒

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Post-Thaw Recovery

After thawing, cells should be recovered in fresh medium for 48 hours.

Freeze medium

Freezing medium: 10% FBS + 10% DMSO in DMEM (10% FBS) + 10% DMSO in DMEM. Cells should be frozen in this medium.

Thawing and Culturing Cells

1. Thaw cells quickly in a water bath at 37°C.
2. Centrifuge cells at 300 x g for 3 minutes.
3. Resuspend cells in 15 ml of DMEM + 10% FBS.
4. Seed cells into a 75 cm² flask.
5. Incubate cells for 24 hours.
6. Replace medium with fresh DMEM + 10% FBS.
7. Harvest cells for analysis.
8. Store cells in liquid nitrogen.

Incubation Atmosphere

37°C, 5% CO₂, humidified.

Flask Coating

Not required.

Freezing Procedure

Cells should be frozen in a controlled rate freezer at -1°C/min to -78°C.

Shipping Conditions

Cells should be shipped in dry ice at -78°C.

Storage Conditions

Cells should be stored in liquid nitrogen at -150°C for up to 196 days.

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Sterility

Das Produkt ist steril und kann ohne weitere Vorbehandlung in PCR-Analysen eingesetzt werden.

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HLA

A*: '01:01:01, '31:01:02
B*: 08:01:01, 40:01:02
C*: 03:04:01, 07:01:01
DRB1*: 03:01:01, 07:01:01
DQA1*: '02:01:01, '05:01:01
DQB1*: '02:01:01, '02:02:01
DPB1*: '04:01:01, '13:XX