

CTLL-2 | 400482

General information

Description	CTLL-2, also known as CTLL-2 T cell leukemia-2, is a continuous cell line of T cell leukemia derived from a T cell leukemia patient. It is a clonal cell line that grows in the presence of IL-2 and is used for studying T cell biology and for drug screening.
Organism	Human
Tissue	Leukemia
Synonyms	CTLL 2, CTLL2, CTLL(2)

Cell characteristics

Morphology	Large, round, epithelial cells with prominent nuclei and nucleoli.
Cell type	Leukemia cell line
Growth properties	Requires IL-2 for growth

Identification and safety

Citation	CTLL-2 (ATCC CCL-220) Cytion 400482
Biosafety level	1
NCBI_TaxID	10090
CellSaurusAccession	CVCL_0227

Receptors and viruses

Receptors expressed	IL-2
Viruses	Not known to be infected by any virus (not a virus producer).
Karyotype	46,XY

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Culture Medium	i2Cult (CTLL-2 cells are grown in i2Cult medium, which is a serum-free medium containing all necessary growth factors and nutrients)
Subculturing	CTLL-2 cells are grown in i2Cult medium. For subculturing, cells are trypsinized with Trypan Blue. Cells are then seeded into new flasks at a density of 5 x 10 ⁵ cells per flask. The medium is renewed every 2-3 days.
Seeding density	5 x 10 ⁵ cells per flask
Fluid renewal	2-3 days
Post-Thaw Recovery	CTLL-2 cells are grown in i2Cult medium. After thawing, cells are seeded into new flasks and allowed to recover for 48 hours before use.
Freeze medium	CTLL-2 cells are grown in i2Cult medium. For freezing, cells are resuspended in a freezing medium containing 10% DMSO and 90% FBS.
Thawing and Culturing Cells	- CTLL-2 cells are grown in i2Cult medium. For thawing, cells are seeded into new flasks and allowed to recover for 48 hours before use. - CTLL-2 cells are grown in i2Cult medium. For thawing, cells are seeded into new flasks and allowed to recover for 48 hours before use. - CTLL-2 cells are grown in i2Cult medium. For thawing, cells are seeded into new flasks and allowed to recover for 48 hours before use. - CTLL-2 cells are grown in i2Cult medium. For thawing, cells are seeded into new flasks and allowed to recover for 48 hours before use. - CTLL-2 cells are grown in i2Cult medium. For thawing, cells are seeded into new flasks and allowed to recover for 48 hours before use. - CTLL-2 cells are grown in i2Cult medium. For thawing, cells are seeded into new flasks and allowed to recover for 48 hours before use. - CTLL-2 cells are grown in i2Cult medium. For thawing, cells are seeded into new flasks and allowed to recover for 48 hours before use. - CTLL-2 cells are grown in i2Cult medium. For thawing, cells are seeded into new flasks and allowed to recover for 48 hours before use.
Incubation Atmosphere	37°C, 5% CO ₂ , humidified
Flask Coating	Not required

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Freezing
Procedure

CTLL-2 cells are grown in suspension in DMEM supplemented with 10% FBS. For freezing, cells are harvested by centrifugation at 300g for 5 minutes. The supernatant is removed and the cell pellet is resuspended in 1 ml of freezing medium (DMEM supplemented with 10% FBS and 10% DMSO). The cells are then frozen in a controlled rate freezer at -1°C/min to -80°C and stored in liquid nitrogen.

Shipping
Conditions

CTLL-2 cells are shipped in a dry ice container at -78°C.

Storage
Conditions

CTLL-2 cells can be stored in liquid nitrogen at -150 to -196°C for up to 1 year.

CTLL-2 cells are grown in suspension in DMEM supplemented with 10% FBS.

Sterility

CTLL-2 cells are grown in suspension in DMEM supplemented with 10% FBS. The cells are tested for mycoplasma contamination using PCR. The cells are also tested for sterility using a sterility test kit. The cells are found to be free of mycoplasma and sterile.