

Eca-109 | 305511

General information

Description	Eca-109 is a human embryonic stem cell (ESCC) derived from a human embryo, characterized by its ability to differentiate into all three germ layers (ectoderm, mesoderm, and endoderm). It is a clonal cell line that can be maintained in an undifferentiated state and is used for research in developmental biology, regenerative medicine, and drug discovery.
Organism	Human
Tissue	Embryonic
Disease	Not applicable
Synonyms	Eca109, Eca 109, EC-109, EC109

Characteristics

Age	Not applicable
Gender	Not applicable
Ethnicity	Not applicable
Morphology	Epithelial cells
Growth properties	Adherent

Documentation

Citation	Eca-109 (Cytion 305511)
Biosafety level	1
NCBI_TaxID	9606
CellosaurusAccession	CVCL_6898

Additional information

Product sheet

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Overview

Culture Medium	RPMI 1640, w: 2.0 mM CaCl_2 , w: 2.0 g/L NaHCO_3 (Cytion 820700a)
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Supplements	10% FBS
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Dissociation Reagent	
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Subculturing	Cells are grown in 25 cm ² flasks (Corning Costar) in RPMI 1640 medium supplemented with 10% FBS. Cells are grown at 37°C in 5% CO ₂ . Cells are harvested by trypsinization and centrifugation at 300 x g for 5 min. Cells are resuspended in PBS and counted.
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Freeze medium	Cells are resuspended in PBS and mixed with 10% DMSO and 90% FBS. Cells are frozen at -80°C.
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Thawing and Culturing Cells

1. Cells are thawed in a water bath at 37°C and centrifuged at 300 x g for 5 min.
2. Cells are resuspended in PBS and counted.
3. Cells are seeded into 25 cm² flasks (Corning Costar) in RPMI 1640 medium supplemented with 10% FBS.
4. Cells are grown at 37°C in 5% CO₂.
5. Cells are harvested by trypsinization and centrifugation at 300 x g for 5 min.
6. Cells are resuspended in PBS and counted.
7. Cells are seeded into 25 cm² flasks (Corning Costar) in RPMI 1640 medium supplemented with 10% FBS.
8. Cells are grown at 37°C in 5% CO₂.

Incubation Atmosphere	37°C, 5% CO ₂ , humidified
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Flask Coating	
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Freezing Procedure	Cells are resuspended in PBS and mixed with 10% DMSO and 90% FBS. Cells are frozen at -80°C.
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**Shipping
Conditions**

Die Probe ist in einem Styroporblock verpackt und ist für den Transport bei -78°C geeignet.

**Storage
Conditions**

Die Probe ist bei -150 bis -196 °C zu lagern. Die Lagerzeit beträgt bis zu 12 Monaten.

Die Probe ist in einem Styroporblock verpackt und ist für den Transport bei -78°C geeignet.

Sterility

Die Probe ist steril und kann direkt für PCR-Analysen verwendet werden. Die Probe ist in einem Styroporblock verpackt und ist für den Transport bei -78°C geeignet.