

SVEC4-10 | 305180

General information

Description	SVEC4-10 is a murine embryonic stem (ES) cell line derived from a C3H/HeJ mouse embryo. It is a clonal population of cells that are capable of differentiating into all three germ layers (ectoderm, mesoderm, and endoderm) and can be used for various applications, including gene targeting, transgenic animal production, and stem cell research. SVEC4-10 cells are maintained in culture on feeder cells or on a feeder-free medium containing leukemia inhibitory factor (LIF).
Organism	Murine
Tissue	Embryonic stem (ES) cells
Synonyms	SVEC 4-10

Genetic background

Breed/Subspecies	C3H/HeJ
Age	1-3 weeks
Gender	Male
Morphology	Embryonic stem (ES) cells
Growth properties	Highly proliferative

Genetic characterization

Citation	SVEC4-10 (Cytion 305180)
Biosafety level	1
NCBI_TaxID	10090
CellosaurusAccession	CVCL_4393
GMO Status	GMO-S1: SVEC4-10 (SVEC4-10) is a murine embryonic stem (ES) cell line derived from a C3H/HeJ mouse embryo. It is a clonal population of cells that are capable of differentiating into all three germ layers (ectoderm, mesoderm, and endoderm) and can be used for various applications, including gene targeting, transgenic animal production, and stem cell research. SVEC4-10 cells are maintained in culture on feeder cells or on a feeder-free medium containing leukemia inhibitory factor (LIF).

Genetic characterization

Product sheet

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Receptors expressed	LDL
Antigen expression	H-2 K, VIII, VCAM
Tumorigenic	spindle
Culture Medium	DMEM, w: 4.5 g/L , w: 4 mM L-, w: 3.7 g/L NaHCO3, w: 1.0 mM (Cytion 820300a)
Supplements	10% FBS
Dissociation Reagent	
Doubling time	24 - 30
Subculturing	T25, 3-5 ' PBS, 3 . ,
Split ratio	1:3 - 1:4
Fluid renewal	2 - 3
Freeze medium	(FBS) + 10% DMSO

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**Thawing and
Culturing Cells**

1. 将冻存管放入 37°C 水浴中快速解冻，解冻后立即将细胞悬液转移到含有 1 mL 完全培养基的细胞培养瓶中，轻轻混匀。
2. 将细胞悬液转移到含有 10 mL 完全培养基的细胞培养瓶中，在 37°C、5% CO₂ 条件下培养 24 小时。
3. 将细胞悬液转移到含有 10 mL 完全培养基的细胞培养瓶中，在 37°C、5% CO₂ 条件下培养 24 小时。
4. 将细胞悬液转移到含有 10 mL 完全培养基的细胞培养瓶中，在 37°C、5% CO₂ 条件下培养 24 小时。
5. 将细胞悬液转移到含有 10 mL 完全培养基的细胞培养瓶中，在 37°C、5% CO₂ 条件下培养 24 小时。
6. 将细胞悬液转移到含有 10 mL 完全培养基的细胞培养瓶中，在 37°C、5% CO₂ 条件下培养 24 小时。
7. 将细胞悬液转移到含有 10 mL 完全培养基的细胞培养瓶中，在 37°C、5% CO₂ 条件下培养 24 小时。
8. 将细胞悬液转移到含有 10 mL 完全培养基的细胞培养瓶中，在 37°C、5% CO₂ 条件下培养 24 小时。

**Incubation
Atmosphere**

37°C, 5% CO₂, 饱和湿度

Flask Coating

无涂层

**Freezing
Procedure**

将细胞悬液转移到含有 1 mL 完全培养基的冻存管中，在 37°C、5% CO₂ 条件下培养 24 小时。

**Shipping
Conditions**

将冻存管放入冰袋中，在 2-8°C 条件下运输。

**Storage
Conditions**

将冻存管放入冰袋中，在 2-8°C 条件下储存。

细胞系名称

Sterility

细胞系经过严格的质量控制，确保无菌。PCR 检测结果显示无支原体污染。

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