

HEK293-CXCR4 HEK293-CXCR4 | 305420

HEK293-CXCR4

Description

HEK293-CXCR4 is a HEK293 cell line stably expressing the human CXCR4 receptor. The cells are grown in DMEM supplemented with 10% FBS. The cells are characterized by high transfection efficiency and are suitable for various applications including drug screening and protein production.

HEK293-CXCR4 cells are derived from HEK293 cells, which are a widely used cell line for studying cellular processes. The CXCR4 receptor is a G-protein-coupled receptor (GPCR) that plays a role in cell migration, proliferation, and differentiation. The expression of CXCR4 in HEK293 cells allows for the study of its signaling pathways and the development of drugs that target this receptor.

Organism

HEK293

Tissue

HEK293

Disease

HEK293/HEK293 (HEK293 HEK293)

Applications

HEK293-CXCR4 cells are used for studying the function of the CXCR4 receptor and for screening drugs that modulate its activity. The cells are also used for protein production and for studying the effects of CXCR4 agonists and antagonists.

HEK293-CXCR4

Age

HEK293

Gender

HEK293

Morphology

HEK293

Cell type

HEK293

Growth properties

HEK293

HEK293-CXCR4

Citation

HEK293-CXCR4 (HEK293-CXCR4 HEK293-CXCR4 305420)

Biosafety level

1

NCBI_TaxID

9606

CellosaurusAccession

CVCL_6G21

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GMO Status	GMO-S1: 人胚肾 HEK293 细胞系转染的 CXC4 受体和 GPCR 受体
Cell Line	人胚肾 HEK293 细胞系
Receptors expressed	CXC4 (CD184)
Culture Medium	RPMI 1640 2.0 葡萄糖 2.0 谷氨酰胺 2.0 NaHCO3 (820700a 葡萄糖)
Supplements	10% FBS 1% 胰岛素 1% 转铁蛋白 1% 硒 10% HEPES 1% NEAA. (G418)
Dissociation Reagent	胰蛋白酶-EDTA
Doubling time	24-36 小时
Subculturing	当细胞汇合度达到 80% 时，用胰蛋白酶-EDTA 消化，离心，用 PBS 洗涤，重悬于含有 10% FBS 的培养基中，接种到新的培养瓶中。
Split ratio	1:5
Seeding density	2×10^4 至 4×10^5 / 瓶
Fluid renewal	2-3 天更换一次培养基
Post-Thaw Recovery	解冻后，将细胞接种到含有 10% FBS 的培养基中，在 37°C 下培养 24 小时，然后更换为不含 FBS 的培养基，继续培养 48 小时。
Freeze medium	含有 10% FBS 和 10% DMSO 的冷冻液

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Thawing and
Culturing Cells

1. Remove the vial from liquid nitrogen storage and allow it to thaw at room temperature for 1-2 minutes.
2. Dilute the cell suspension into 10 ml of pre-warmed complete medium.
3. Seed the cells into a T75 flask containing 50 ml of complete medium.
4. Incubate the cells at 37°C in 5% CO₂ for 24 hours.
5. After 24 hours, check the cell density and passage if necessary.
6. For long-term storage, seed cells into cryovials at a density of 1-2 million cells per vial.
7. Freeze the cells in liquid nitrogen storage.
8. Thaw the cells and seed them into a new flask.

Incubation
Atmosphere

37°C, 5% CO₂

Flask Coating

Not required

Freezing
Procedure

Cells are frozen in liquid nitrogen storage at -196°C.

Shipping
Conditions

Cells are shipped in dry ice at -78°C.

Storage
Conditions

Cells are stored in liquid nitrogen at -196°C.

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Sterility

Cells are tested for mycoplasma contamination using PCR. The results are negative.