

Product sheet

HEK293-F | 300260

HEK293-F

Description HEK293-F is a derivative of HEK293 cells, which are a continuous cell line derived from the human embryonic kidney (HEK) cells. HEK293-F cells are characterized by their high transfection efficiency and are commonly used in molecular biology and biotechnology for the production of recombinant proteins and viral vectors.

Organism Human

Tissue Kidney

Applications Transfection, protein production

Synonyms HEK-293-F, HEK 293-F, HEK-293F, HEK293F, 293-F, 293 F, 293F

HEK293-F

Age 1-3 months

Gender Male

Morphology Adherent, epithelial

Growth properties High growth rate

HEK293-F

Citation HEK293-F (HEK293-F) Cytion 300260

Biosafety level 1

NCBI_TaxID 9606

CellosaurusAccession CVCL_6642

GMO Status GMO-S1: HEK293-F cells are derived from HEK293 cells, which are a continuous cell line derived from the human embryonic kidney (HEK) cells. HEK293-F cells are characterized by their high transfection efficiency and are commonly used in molecular biology and biotechnology for the production of recombinant proteins and viral vectors.

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Receptors expressed	
Protein expression	CEA, p53
Tumorigenic	
Viruses	DNA, 5 DNA
Characteristics	
Culture Medium	CD293 (Thermo)
Supplements	10% FBS, 1% NEAA
Dissociation Reagent	
Doubling time	30
Subculturing	3, T25, 3-5, 3
Seeding density	1×10^4 , 4
Fluid renewal	
Post-Thaw Recovery	24
Freeze medium	(FBS) + 10% DMSO

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Thawing and Culturing Cells

1. Thaw the vial quickly in a 37°C water bath, and transfer the cells to a pre-warmed T25 flask containing 5 ml of complete DMEM medium.
2. Incubate the cells in a humidified 5% CO₂ incubator at 37°C for 24 hours to allow the cells to attach to the flask.
3. After 24 hours, check the cells under a microscope. If the cells have attached, replace the medium with 5 ml of fresh complete DMEM medium.
4. Once the cells have attached, they can be passaged into a larger flask or used for downstream applications.
5. The cells should reach confluency in a T25 flask within 3-5 days. At 15% confluency, the cells can be passaged into a T75 flask.
6. For passage, trypsinize the cells and resuspend them in 3 ml of complete DMEM medium. Seed the cells into a T75 flask containing 150 ml of complete DMEM medium.
7. The cells should reach confluency in a T75 flask within 3-5 days. At 10% confluency, the cells can be passaged into a T175 flask.
8. For passage, trypsinize the cells and resuspend them in 10 ml of complete DMEM medium. Seed the cells into a T175 flask containing 500 ml of complete DMEM medium.

Incubation Atmosphere 37°C, 5% CO₂, humidified

Flask Coating Not required

Freezing Procedure Harvest cells at 70-80% confluency, resuspend in freezing medium, and freeze in a controlled rate freezer at -80°C.

Shipping Conditions Ship at -80°C in dry ice.

Storage Conditions Store at -150°C for up to 196 months.

HEK293-F / HEK293T / HLA

Sterility The cells are free of mycoplasmas and other contaminants. PCR screening is available upon request.