

## HEK293FT | 305275

**Description** HEK293FT is a derivative of HEK293 cells, which are a widely used cell line for the production of recombinant proteins. HEK293FT cells are characterized by their ability to efficiently produce and secrete recombinant proteins. The "FT" designation indicates that these cells are derived from HEK293 cells that have been transfected with a plasmid containing the SV40 large T antigen gene, which confers the ability to immortalize cells and maintain high levels of protein expression.

**Organism** *Homo sapiens*

**Tissue** Kidney

**Synonyms** HEK293, HEK293T, HEK293FT, HEK293FT, HEK293FT, HEK293FT, HEK293FT, HEK293FT, HEK293FT, HEK293FT

**Age** 10-15 years

**Gender** Male

**Morphology** Epithelial cells

**Growth properties** Adherent

**Citation** HEK293FT (ATCC CRL-1573) (305275)

**Biosafety level** 1

**NCBI\_TaxID** 9606

**CellosaurusAccession** CVCL\_6911

**GMO Status** GMO-S1: HEK293 (293-FT) cells transfected with SV40 large T antigen

**Antigen expression** SV40 large T antigen (E1A)

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**Viruses**  $1 \times 10^6$  HEK293FT cells  $5 \times 10^6$  HEK293FT cells (SV40)

### Culture Medium

DMEM  $\times 4.5$  g/l /  $\times 4$  g/l  $\times 3.7$  g/l NaHCO<sub>3</sub>  $\times 1.0$  g/l (HEK293FT 820)

### Supplements

$10 \times$  FBS.

### Dissociation Reagent

Trypsin

### Subculturing

HEK293FT cells are cultured in DMEM supplemented with 10% FBS. For subculturing, cells are washed with PBS and then trypsinized.

### Seeding density

$2 \times 10^5$  cells /  $100 \mu\text{l}$

### Fluid renewal

2  $\times$   $10^5$  cells

### Freeze medium

DMEM supplemented with 10% FBS + 10% DMSO

### Thawing and Culturing Cells

1. Thaw the cells in a water bath at 37°C.
2. Add the cells to a pre-warmed medium.
3. Incubate the cells for 37 hours.
4. Seed the cells into a 70% confluent well.
5. Incubate the cells for 15 days.
6. Seed the cells into a 300  $\times$  3 mm well.
7. Incubate the cells for 10 days.
8. Harvest the cells.

