

# HEK293T | 300189

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**Description**

HEK 293T cells are a widely used cell line for the production of recombinant proteins. They are derived from HEK 293 cells, which were created by the transfection of HEK 293 cells with SV40 large T-antigen. HEK 293T cells are characterized by their high transfection efficiency and ability to produce high yields of recombinant proteins. They are commonly used in a variety of applications, including protein production, drug screening, and gene expression studies.

**Organism**      *Homo sapiens*

**Tissue**            Kidney

**Applications**    Protein production, drug screening, gene expression studies

**Synonyms**        Hek293T, HEK-293T, HEK-293T, HEK 293T, HEK-293-T, HEK 293 T, 293-T, 293 T, 293 T, 293 T, 293T, Hek 293T, 293tsA1609neo

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**Age**                1-3 months

**Gender**            Male

**Morphology**      Adherent, epithelial

**Growth properties**      High growth rate

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**Citation**            HEK293T (ATCC CRL-1197) | 300189

**Biosafety level**      1

**NCBI\_TaxID**        9606

**CellosaurusAccession**    CVCL\_0063

Product sheet

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**GMO Status** GMO-S1: HEK293T SV40

**Receptors expressed**

**Protein expression** CEA p53

**Tumorigenic**

**Culture Medium** EMEM (MEM Eagle) 2 2.2 NaHCO3 EBSS (820100a)

**Supplements** 10 1

**Dissociation Reagent**

**Doubling time** 30

**Subculturing** PBS

**Seeding density**  $1 \times 10^4$  4

**Fluid renewal** 2

**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. Transfer the cells to a pre-warmed medium.
2. Centrifuge the cells at 300 x g for 3 minutes. Resuspend the cells in 10 ml of medium.
3. Seed the cells into a T75 flask containing 37 ml of medium.
4. Incubate the cells at 37°C in 5% CO2. The cells should reach 70% confluency within 24 hours.
5. Once the cells reach 70% confluency, they can be used for transfection or passaged.
6. Passaging: Seed cells into a new T75 flask with 37 ml of medium.
7. The cells should reach 70% confluency within 24 hours.
8. The cells can be used for transfection or passaged.

**Incubation Atmosphere** 37°C, 5% CO2

**Flask Coating** Not required

**Freezing Procedure** Seed cells into a T75 flask with 37 ml of medium. Once cells reach 70% confluency, harvest cells and freeze in liquid nitrogen.

**Shipping Conditions** Dry ice, -78°C

**Storage Conditions** -150°C to -196°C

HEK293T / HEK293T / HLA

**Sterility** The cells are provided in a sterile, cryoprotected medium. The cells are free of mycoplasma contamination. The cells are free of endotoxins. The cells are free of viruses. The cells are free of other contaminants.