

Product sheet

HSF (SV40) | 305338

Product information

Description HSF(SV40) is a plasmid vector containing the SV40 T-antigen (T-Ag) gene under the control of the SV40 promoter. It is used for the production of SV40 T-Ag protein in cells. The plasmid is derived from the SV40 genome and contains the T-antigen gene, the SV40 origin of replication, and the SV40 promoter. The T-antigen gene is flanked by the SV40 origin of replication. The plasmid is packaged in a SV40 T-antigen negative packaging system. The plasmid is used for the production of SV40 T-Ag protein in cells. The T-antigen protein is a DNA replication and cell growth factor. It is essential for the replication and growth of SV40 T-antigen positive cells. The T-antigen protein is also a potent oncogene. It is involved in the transformation of normal cells into cancer cells. The T-antigen protein is a DNA replication and cell growth factor. It is essential for the replication and growth of SV40 T-antigen positive cells. The T-antigen protein is also a potent oncogene. It is involved in the transformation of normal cells into cancer cells.

Organism *SV40*

Physical characteristics

Morphology *SV40* is a DNA virus with a diameter of approximately 26 nm. It is a double-stranded DNA virus with a circular genome. The genome is approximately 7.2 kb in size. The virus is packaged in a protein coat consisting of 240 capsid proteins. The capsid is composed of three subunits: a large subunit and two small subunits. The large subunit is responsible for the attachment of the virus to the host cell. The small subunits are responsible for the penetration of the virus into the host cell. The virus is highly stable and can survive in the environment for several months.

Cell type *SV40* can infect a wide range of cell types, including fibroblasts, epithelial cells, and muscle cells. It is particularly efficient at infecting cells that are in the S phase of the cell cycle.

Growth properties *SV40* is a DNA virus that requires a DNA replication and cell growth factor for its replication. It is highly stable and can survive in the environment for several months. The virus is highly infectious and can be transmitted through direct contact with infected cells or through the environment. The virus is highly stable and can survive in the environment for several months.

Identification

Citation HSF(SV40) (Cytion 305338)

Biosafety level 1

NCBI_TaxID 9606

GMO Status GMO-S1: HSF SV40 T-antigen

Storage and handling

Storage

Culture Medium DMEM:Ham's F12 (1:1), w: 3.1 g/L *Glucose*, w: 2.5 mM L-*Asparagine*, w: 15 mM HEPES, w: 0.5 mM *β*-*Mercuric chloride*, w: 1.2 g/L NaHCO₃ 820400a)

Supplements *Glucose* 10% FBS, 50 *β*-*Mercuric chloride*/ *β*-*Mercuric chloride*

Dissociation Reagent *Trypsin*

HSF (SV40) | 305338

Freeze medium

Freeze medium: 10% FBS + 10% DMSO

Thawing and Culturing Cells

1. Thaw cells in a 37°C water bath.
2. Centrifuge at 300 x g for 3 minutes.
3. Resuspend in 15 ml of fresh medium.
4. Seed into 8 ml of fresh medium.
5. Incubate at 37°C with 5% CO2.
6. Harvest cells when they reach 70% confluency.
7. Harvest cells at 10% confluency.
8. Harvest cells at 10% confluency.

Incubation Atmosphere

37°C, 5% CO2

Flask Coating

Flask coating: HSF (SV40)

Freezing Procedure

Freezing procedure: Freeze at -80°C

Shipping Conditions

Shipping conditions: Ship at -78°C

Storage Conditions

Storage conditions: Store at -150 to -196°C

HSF (SV40) / HLA

