

293RTV cell line

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CATALOG #
AAA44655

PRODUCT SYNONYMS

293RTV; 293RTV Cell Line; 293RTV cell line

PRODUCT SPECIFICATIONS

Concentration	1 mL, $>1 \times 10^6$ cells/mL in 90% complete medium, 10% DMSO (varies by lot)
Quality Control	This cryovial contains at least 1.0×10^6 293RTV cells as determined by morphology, trypan-blue dye exclusion, and viable cell count. The 293RTV cells are tested free of microbial contamination.
Methods	Establishing 293RTV Cultures from Frozen Cells - Place 10 mL of complete DMEM growth medium in a 50-mL conical tube. Thaw the frozen cryovial of cells within 1–2 minutes by gentle agitation in a 37°C water bath. Decontaminate the cryovial by wiping the surface of the vial with 70% (v/v) ethanol. - Transfer the thawed cell suspension to the conical tube containing 10 ml of growth medium. - Collect the cells by centrifugation at 1000 rpm for 5 minutes at room temperature. Remove the growth medium by aspiration. - Resuspend the cells in the conical tube in 15 mL of fresh growth medium by gently pipetting up and down. - Transfer the 15 mL of cell suspension to a T-75 tissue culture flask. Place the cells in a 37°C incubator at 5% CO₂. - Monitor cell density daily. Cells should be passaged when the culture reaches 95% confluence
Dry Ice Note	The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.
Preparation and Storage	Liquid nitrogen Note: For best results begin culture of cells immediately upon receipt. If this is not possible, store at -80°C until first culture. Store subsequent cultured cells long term in liquid nitrogen.

ADDITIONAL INFORMATION

Related Product Information for 293RTV cell line	The 293RTV Cell Line is a permanent line established from primary embryonic human kidney transformed with human adenovirus type 5 DNA. The genes encoded by the E1 region of adenovirus (E1a and E1b) are expressed in these cells and participate in transactivation of viral promoters, allowing these cells to produce high levels of protein. 293RTV also stably expresses the SV40 large T antigen, through cloning and multiple rounds of testing for viral yield, 293RTV is specifically selected for high level of retroviral production. It offers several advantages over the regular 293T cells: • High retroviral yield • Firm attachment to culture plates and fast growing • Ideal as a host when making retrovirus by cotransfection Note: We recommend cotransfection of expression vector:gag-pol vector:envelope vector at the following plasmid ratios: (a) For ecotropic or amphotropic retrovirus, 3:1:1 (b) For VSVG-pseudotyped retrovirus, 3:1:0.5
Product Categories/Family for 293RTV cell line	Viral Expression; Retroviral Expression; Retroviral Expression and Packaging; 293RTV Cell Line

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

