

Recombinant Adenovirus Type 5 Particles, CMV- β -Galactosidase

Cat. No. ADE-010 Lot. No. (See product label)

SPECIFICATION

Product Overview

This product is a concentrated source of highly-purified Adenovirus type 5 particles from a lysate of optimally-infected 293 cells, with an E1 and E3 deletion and insertion of CMV-driven nuclear-targeted β -galactosidase gene in E1 region. Double CsCl gradient purification with DNase treatment and dialysis, this Ad5 preparation is of very high quality and minimal lot-to-lot variation.

Background

Adenoviruses are medium-sized (80–100 nm), non-enveloped viruses. They have an icosahedral nucleocapsid containing a linear, double-stranded DNA genome of approximately 36 kb (Nermut, 1984). The viral genome is grouped into different transcriptional units, designated early (E1, E2, E3, E4), intermediate, and late. The E1 gene is essential for activation of other viral genes and for viral replication. Deletion of the E1 gene results in viruses that are replication incompetent in normal cells. However, replication-competent viral particles can be produced from E1-deleted viral vectors by providing the E1 gene in trans. The E3 gene is nonessential for either viral replication or infection.

Purity

Double CsCl gradient purification with DNase treatment and dialysis

Formulation

PBS, 50 mM Hepes pH 7.8, 10% Glycerol

Storage

Store frozen at less than -20 centigrade, preferably -80 centigrade.

Shipping

Dry ice

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 45-1 Ramsey Road, Shirley, NY 11967, USA

Notes	This product is intended for research and manufacturing uses only. It is not a diagnostic device. The user assumes all responsibility for care, custody and control of the material, including its disposal, in accordance with all regulations.
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Type	Recombinant
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ClassID 1	Infectious Disease
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GENE INFORMATION

Synonyms	Adenovirus Type 5 Particles
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