ACE Biolabs

Datasheet

Pseudovirus- Influenza A virus-H1N1-M1

Product Information

Cat. No.: PV201

Specification: 1mL/vial

Background Information

This product is obtained by chemical synthesis of a portion of the M1 gene sequence of influenza A virus H1N1 (Influenza A virus H1N1) and cloned into a retroviral vector. The pseudovirus is prepared in 293T cells, purified by chromatography and concentrated by ultracentrifugation. The obtained pseudovirus is a retroviral envelope encapsulating a portion of the M1 gene nucleic acid sequence. It can be used as a positive control for viral RNA nucleic acid extraction experiments and QPCR detection experiments.

Components

Glucose, potassium dihydrogen phosphate, disodium drogen phosphate, sodium chloride, potassium chloride, H1N1-M1 Pseudovirus.

Storage Condition

Store at -20℃ or below for 12 months

Recommended Usage

Usage Recommendation: 50μL-100μL per instance. Results may vary between labs due to different nucleic acid extraction kits in use. It is recommended for labs to optimize based on their experimental conditions.

Instruction for Use

1. Thaw pseudovirus: Remove the pseudovirus from the -20°C freezer and place it on ice to thaw or thaw naturally at 4°C. Once completely thawed, proceed with the relevant experimental operations;
2. Pseudovirus inactivation (optional): In a biosafety cabinet, aspirate the amount of pseudovirus required for the current experiment into an EP tube and inactivate at 56°C for 30 minutes;
3. Pseudovirus nucleic acid extraction (materials provided by the user): This product can be used with membrane adsorption or magnetic bead adsorption kits for the extraction of pseudovirus RNA.
4. QPCR detection (materials provided by the user): After RT-PCR of pseudovirus RNA into cDNA, QPCR quantitative detection was performed.
5. Supplementary instructions: There may be a small amount of plasmid DNA residue in the preparation of this product. For experiments with high purity requirements, DNase-DEPC-H2O provided by our company can be used for RNA dissolution and washing during RNA extraction. Then add the final concentration of 5mM EDTA and incubate at 75°C for 10 minutes for DNase enzyme inactivation (optional).

Precautions

1. Freezing and thawing will reduce the stability of the pseudovirus, thereby affecting the nucleic acid extraction effect and QPCR detection results. Repeated freezing and thawing should be avoided during use;

2. Virus inactivation treatment may lead to RNA degradation. Please choose according to the actual experimental needs.
3. If the product needs to be diluted, it can be diluted with phosphate buffer saline (PBS) or saline (0.9% NaCl);
4. If the product splashes into the eyes, skin or other parts of the body during use, rinse immediately with plenty of water;
5. Experimental waste generated by using this product must be treated by high-pressure sterilization and treated in accordance with medical waste disposal requirements.

Please note:

- This product is for research use only and is not intended for diagnostic or therapeutic purposes.
- It is important to handle this product with care and follow all safety protocols.
- Please refer to the provided documentation for more detailed information on the product and its use.

Appendix: M1 gene

CTTCTAACCGAGGTCGAAACGTACGTTCTTTCTATCATCCCGTCAGGCCCCCTCAAAGCCGAGATCGC
GCAGAGACTGGAAAGTGTCTTTGCAGGAAAGAACACAGATCTTGAGGCTCTCATGGAATGGCTAAAGA
CAAGACCAATCTTGTCACCTCTGACTAAGGGAATTTTAGGATTTGTGTTCACGCTCACCGTGCCCAGTG
AGCGAGGACTGCAGCGTAGACGCTTTGTCCAAAATGCCCTAAATGGGAATGGGGACCCGAACAACAT
GGATAGAGCAGTTAAACTATACAAGAAGCTCAAAAGAGAAATAACGTTCCATGGGGCCAAGGAGGTGT
CACTAAGCTATTCAACTGGTGCACTTGCCAGTTGCATGGGCCTCATATACAACAGGATGGGAACAGTGA
CCACAGAAGCTGCTTTTGGTCTAGTGTGTGCCACTTGTGAACAGATTGCTGATTCACAGCATCGGTCTC
ACAGACAAATGGCTACTACCACCAATCCACTAATCAGGCATGAAAACAGAATGGTGCTGGCTAGCACT
ACGGCAAAGGCTATGGAACAGATGGCTGGATCGAGTGAACAGGCAGCAGAGGCCATGGAGGTTGCT
AATC AGACTAGGCAGATGGTACATG