

Influenza A H5N1 (A/Texas/37/2024) Pseudovirus

Influenza A H5N1 (A/Texas/37/2024) Pseudovirus, Lentivirus-based

CATALOG #
AAA62281

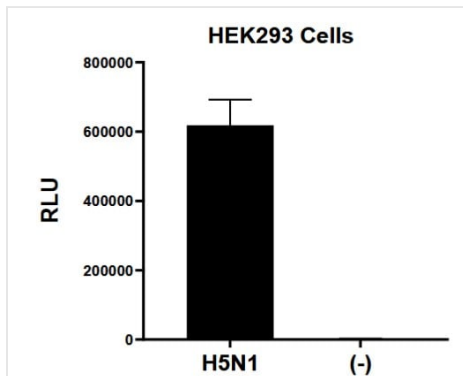
PRODUCT SYNONYMS

Influenza A H5N1 (A/Texas/37/2024); Influenza A H5N1 (A/Texas/37/2024) Pseudovirus; Lentivirus-based; Influenza A H5N1 (A/Texas/37/2024) pseudovirus

PRODUCT SPECIFICATIONS

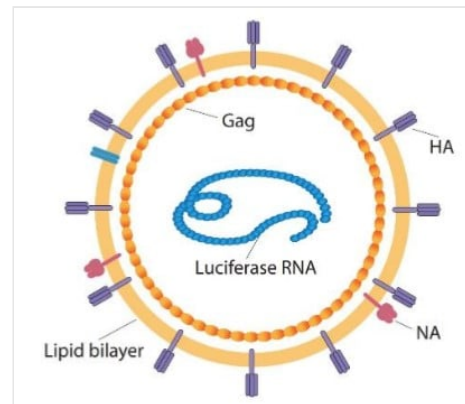
Form/Format	1mL or 5 mL (for one multi-well plate) pseudoviral particles (PP). PP per mL > 1.0E+08
Cell Infection	1. In each well of 96-well plate, add 50 ul of influenza A H5N1 Pseudoviral Particles (12.5 ul for 384-well plate); add 50 ul of HEK293 cells (5×10^5 cells/mL) in DMEM (with 10% FBS and 20 ug/mL Polybrene) (12.5 ul for 384-well plates). 2. Incubate for 48 hrs at 37 degree C.
Measurement of Luciferase Activity in Infected cells	1. Do not remove supernatant. Add 100 ul luciferase assay WORKING SOLUTION (25 ul for 384-well plates). Refer to the protocol of "Firefly Luciferase Assay Kit". 2. Read in a luminescence plate reader and record the data.
Features	Robust: Excellent signal to noise (basal) ratio Easy to use: Amenable to HTS format (96-well, 384-well and 1536-well format) Specific: only measures the pseudovirus entry into host cells
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	Upon receiving it, store at -70 degree C right away. Thaw* before immediate use. *Note: read the instruction for thawing in the following protocol carefully. Do not aliquot and refreeze. Shelf Life: Six months from the date of shipping when stored at -70 degree C

IMAGES



Application Data

Figure 2. Pseudoviral Particle (PP) Infection Assays (Pseudoviral particles on HEK293 cells in 384-well format; Luminescence plate reader: BioTek Synergy 2, gain 255) H5N1: Lentivirus-based pseudovirus w/ influenza A H5N1 proteins (AAA62281) (-): Negative control (Lentivirus-based pseudoviral particles, w/o H5N1 protein)



Application Data

HA (A/Texas/37/2024/H5N1) (GenBank accession#: PP577943.1) NA (A/Texas/37/2024/H5N1) (GenBank accession#: PP577945) Figure 1. Illustration of the replication-deficient Lentivirus particle pseudotyped with H5N1 proteins

ADDITIONAL INFORMATION

Related Product Information for Influenza A H5N1 (A/Texas/37/2024) pseudovirus	Our Influenza A H5N1 Pseudoviral Particles are replication-deficient Lentivirus pseudotyped with the H5 and N proteins of the influenza A virus (A/Texas/37/2024/H5N1) strain. They also contain the ORF for firefly luciferase (FLuc) as a reporter. Upon the Pseudoviral Particles (PP) infecting the cells, the reporters will be expressed in the transduced cells. By measuring the FLuc activity in the cells, the infectivity of the PP can be determined.
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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.

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Online datasheet: <https://stage.aaabiotech.com/pseudovirus/influenza-a-h5n1-a-texas-37-2024/62281>